
Reference Data

results



Reference Data Index

Reference Data

Aluminum and Bronze Connectors K-2
Recommended Types of Hardware and Installation Mounting K-4
Ampacity Ratings, Bolted Pad Connections..... K-5
Maximum Conductor Temperature Limits..... K-6
Catalog Number Suffixes for Special Feature..... K-7
Conductor Charts K-8

Aluminum and Bronze Connectors — Alloys, Connectors, Hardware & Installation

In over 100 years of serving the electrical industry, Anderson and Fargo have earned a reputation for being creative leaders in the design and manufacture of electrical connectors, fittings and related accessories. The acceptance of these responsibilities is best exemplified through our wholly self-sufficient facilities. Design Engineering, Testing and Metallurgical Laboratories, and all facets of Manufacturing are geared for research, development and production of a full line of quality bronze, aluminum and ductile iron products.

The following information conveys helpful reference for material composition, installation, standardization and definitions applying to connectors and fittings as developed during our years of experience.

Aluminum Connectors

Aluminum Alloys:

Connectors and fittings requiring high mechanical properties are cast from aluminum alloy 356. Sand cast 356 is heat treated to the T6 temper, and permanent mold castings are heat treated to the T61 temper. The 356 alloy is a 7 per cent silicon—0.3 per cent magnesium-aluminum alloy. The alloy is not susceptible to stress corrosion or season cracking. Its volume conductivity is approximately 39 per cent, I.A.C.S.

Cast compression connectors requiring a soft high conductivity aluminum are supplied from 99 plus per cent pure aluminum. Other aluminum compression connectors are made from commercially pure high conductivity wrought aluminum.

Installation Recommendations For Aluminum Connectors

Select type of connector from those listed below and follow the indicated procedure.

| CONNECTOR TYPE | INSTALLATION PROCEDURE |
|---------------------------|---------------------------------------|
| Bolted | Procedure #1 |
| Compression | Procedure #2 |
| Compression and Bolted... | Procedure #2 followed by Procedure #1 |

PROCEDURE #1—BOLTED CONNECTIONS

- A. For aluminum to aluminum connections.
 1. Vigorously clean all contact surfaces of the connector and conductor with a stiff stainless steel wire brush to remove oxides. A typically bright aluminum surface should be obtained.
 2. Immediately coat these contact areas with a generous amount of contact sealant.
 3. Install fitting with bolts finger tight. If a generous bead of compound does not appear, remove the conductor and add more sealant.

4. Alternately (criss-cross) and evenly tighten bolts with a torque wrench to the values shown on page 6.
5. Excess sealant squeezed out of joint can be left as is or can be lightly smoothed along contact line.
6. All excess sealant must be removed from EHV Connectors and entirely from cable insulation.

PROCEDURE #2—COMPRESSION CONNECTIONS

1. Vigorously clean the conductor contact area with a stainless steel brush. Single-die connectors will have joint compound/inhibitor applied at the factory.
2. Fully insert the conductor into the barrel and crimp. Crimping should begin nearest the center of sleeve type connectors. For closed barrel type connectors crimping should begin at the closed end and work toward the open end. Excess joint compound/inhibitor squeezed out of the connector must be removed from EHV Connectors or any cable insulation.

Installation Recommendations for Aluminum to Copper Connections Using Aluminum Connectors

Connectors with contact sealant—Aluminum connectors can be used for making aluminum to copper connections if the proper installation care is observed. This includes the use of a sealant in accordance with practices outlined above. Use of a sealant protects the connection from oxide formation and electrolytic corrosion for as long as it remains present in the connection completely coating the surfaces and sealing out moisture.

Added protection in addition to sealants is available. Aluminum distribution connectors can be supplied with plating or with copper lined contacts.

Bi-Metallic Transition Plates—Aluminum to copper connections between flat NEMA drilled tongues and bars can be made using transition plates (Type TP). These plates are formed from sheets of 80% aluminum 20% copper which are molecularly bonded together. Best results are obtained by using contact sealant. Always position the aluminum conductor above the copper conductor.

Tin Plating—Tin plating can be furnished on certain connectors by adding suffix “GP” to the catalog number, aluminum distribution.

Hardware—Anodized Aluminum Clamping Bolts are standard with most Aluminum Power Connectors assembled at factory. The bolts are fabricated 2024-T4, 2014-T4 or equal aluminum and are anodized. After anodizing, the coating is sealed with a dichromate solution which imparts a yellow-green finish.

Standard nuts furnished on aluminum bolts are 6061 T6 dry waxed coated.

Insulator attachment hardware for bus supports is galvanized steel.

Bronze Bolted Clamps

Bronze bolted deadend and suspension clamps require high tensile strength and corrosion resistance in application are cast from Anderson Alloy 112 (ASTM B-30 Alloy No. C95500). The 112 alloy is a 10% aluminum, 4.5% nickel copper alloy with a minimum tensile strength of 90,000 PSI.

Contact Sealants, Inhibitors and Joint Compounds—Various sealant formulations have been developed to provide improved electrical and mechanical performance as well as environmental protection to the contact area. Non-petroleum base sealants are provided for underground applications and other applications where natural or synthetic rubber goods might be adversely affected.

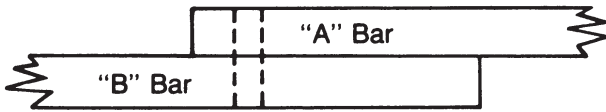
Non-gritted sealants, generally referred to as joint compounds, are recommended for flat connections and as a groove sealant in bolted connectors.

Our gritted sealants are primarily used in compression connectors. Aluminum single-die compression connectors have sealant applied at the factory.

See Joint Compound / Inhibitor catalog section for details.

Recommended Types of Hardware and Installation Mounting

Hardware for Joining Like or Unlike Metals



| | | | | | |
|--------------------------------|-------------------------------|--------------|------------------------|---------------------------|------------------------|
| If "A" BAR is | Cu | AL | AL | Galvanized Steel | Galvanized Steel |
| and "B" BAR is | Cu | Cu | AL | Cu | AL |
| Recommended Series of Hardware | (1) Si-Br (2) SS (3) GS | (1) SS or GS | (1) AL (2) SS or GS | (1) Si-Br (2) SS or GS | (1) AL (2) SS or GS |

KEY:

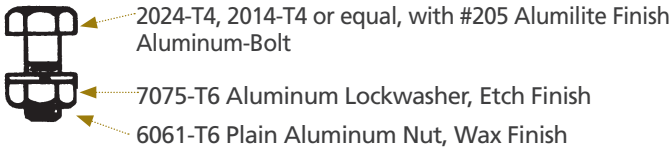
Si-Br—Silicon Bronze GS—Galvanized Steel
 SS—Stainless Steel AL—Aluminum
 (1) denotes preferred hardware usage.

NOTE:

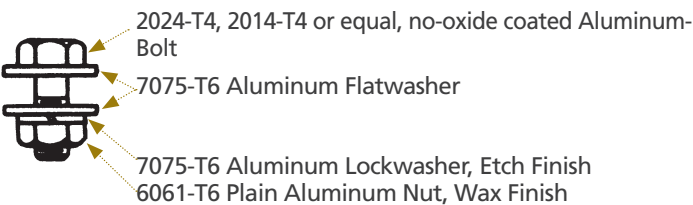
Contact sealant should be used between Aluminum to Aluminum and Aluminum to Copper connections.

Aluminum Connectors

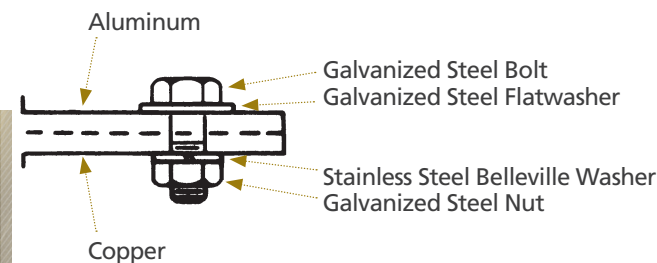
Aluminum Connector (Clamping Hardware)



Aluminum To Aluminum Assemblies (Tongue Mounting Hardware As Assembled At Factory)



Aluminum To Copper Assemblies (Tongue Mounting Hardware)

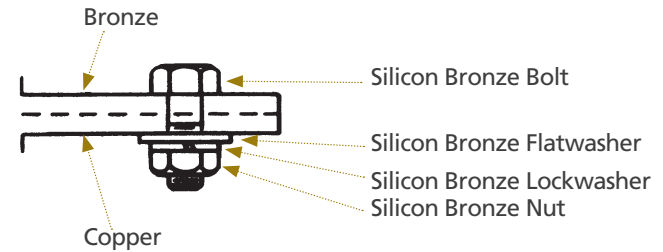


Bronze Connectors

Bronze Connector (Clamping Hardware)



Bronze To Copper Assemblies (Tongue Mounting Hardware)



Recommended Torque Values for Bolted Connectors

Tightening Force Applied to Hardware: Following are ANDERSON'S recommended torque values applying to all clamping hardware used in connectors and fittings.

NOTE:

Care should be taken to prevent sealant from being applied to hardware since torque values will be affected if the hardware becomes lubricated with sealant.

| Bolt Dia. | Recommended Torque Non-Lubricated Steel & Silicon Bronze Hardware lb. inches | Recommended Torque Lubricated Hardware & Aluminum Hardware lb. inches* |
|-----------|--|--|
| 5/16" | 180 | 120 |
| 3/8" | 240 | 168 |
| 1/2" | 480 | 300 |
| 5/8" | 660 | 480 |
| 3/4" | 840 | 720 |

*Reduced torque limits apply when replacing aluminum clamping hardware with steel in bolted aluminum connectors.

Ampacity Ratings of Anderson & Fargo

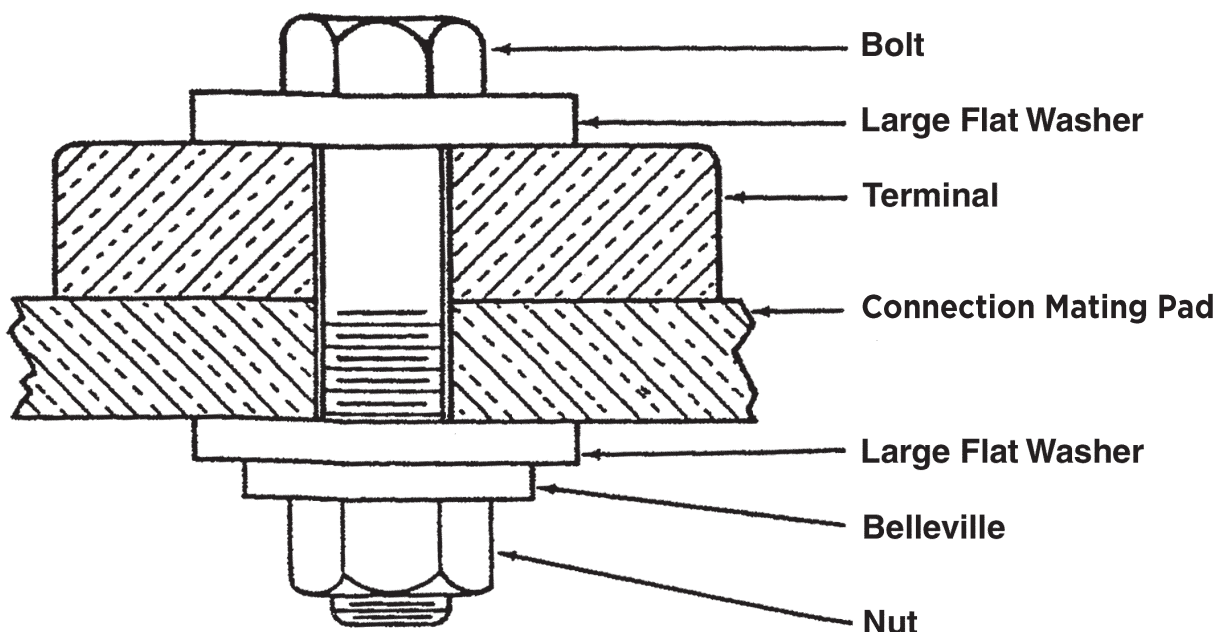
Heavy Duty ⁽¹⁾ Bolted Pad Connectors Compression, Welded and Close-Fit Bolted Designs

| Product Data and Conductor Size | | | | | |
|---------------------------------|--------|----------------------|-----------|-----------------------------|---------------------|
| Bolted Pad | | Bolts ⁽²⁾ | | Ampacity (A) ⁽⁴⁾ | |
| Dimensions (in) | | Number | Size (in) | Inhibitor Type | |
| Width | Length | | | Standard | HTJC ⁽³⁾ |
| 1.5 | 3.0 | 2 | 0.5 | 1220 | 1400 |
| 2.0 | 3.0 | 2 | 0.5 | 1260 | 1450 |
| 3.0 | 3.0 | 4 | 0.5 | 2450 | 2825 |
| 4.0 | 4.0 | 4 | 0.5 | 2580 | 3000 |
| 6.0 | 4.0 | 6 | 0.5 | 3825 | 4400 |

NOTES:

- (1) Heavy duty connectors are defined as having continuous cross section about the periphery of the conductor and through the pad, equal to or greater than 125% of the conductor.
- (2) Ratings assume use of steel clamping bolts and Belleville spring washers. Higher ampacity ratings can be achieved if conductive bolts, nuts and washers are used.
- (3) HTJC is the Anderson/FARGO conductive grit joint compound, recommended for maximum conductivity in compression and bolted pad joints.
- (4) Ratings are based on conductor temperature of 90°C in 40°C ambient, 2 ft/sec. cross wind.

Suggested method of mounting connectors



Conductor Temperature Limits Anderson & Fargo

Anderson / Fargo Clamps and Connectors

| Product Data and Conductor Size | | | | |
|---|---|-----------------------------------|--------------|--------------------|
| Typical Catalog Number Series | Clamp / Connector Description | Maximum Conductor Temperature ° C | | |
| | | Bare | w/Armor Rods | w/Line Guards |
| AAC, AAAC, ACAR & ACSR rated Connectors⁽¹⁾ & Clamps | | | | |
| PG/SD | Bolted Deadend Strain Clamp (on ACSR or ACAR) | 93 | — | — |
| PG/SD | Bolted Deadend Strain Clamp (on AAC or AAAC) | 130 | — | — |
| A01 | Compression Deadend, Single-Die type | 93 | — | — |
| A15 | Compression Splice, Single-Die type | 93 | — | — |
| SEDA | Compression Deadend, Two-Die type | 93 ⁽⁴⁾ | — | — |
| TJA | Compression Splice, Two-Die type | 93 ⁽⁴⁾ | — | — |
| JLS/40 | Compression jumper loop splice | 93 | — | — |
| ACF/JT/30 | Compression jumper terminals | 93 | — | — |
| ORT | Compression Tee | 93 | — | — |
| HAS/CFS/TSC | Bolted Suspension Clamps | 130 | 160 | 150 |
| ACSS rated Connectors⁽²⁾ & Clamps | | | | |
| SEDA | Compression Deadend, Two-Die ACSS type | 250 | — | — |
| TJA | Compression Splice, Two-Die ACSS type | 250 | — | — |
| 30/40 | Compression jumper loop splice, ACSS type | 250 | — | — |
| ORT | Compression Tee, ACSS type | 250 | — | — |
| CFSHT | Suspension Clamp, Hi-Temp Aluminum | 200 | 250 | 250 |
| TSCHT | Suspension Clamp, Trunnion, Hi-Temp Aluminum | 150 ⁽³⁾ | 250 | 200 ⁽³⁾ |
| 97642/JLC | Jumper clamp single conductor clamp to post insulator | 150 ⁽³⁾ | 250 | 200 ⁽³⁾ |
| 271 | Jumper clamp assemblies, bundled conductor | 250 | 250 | 250 |

NOTES:

- (1) AAC, AAAC, ACAR & ACSR compression connectors installed with standard joint compound, FARGO type UJC.
- (2) ACSS compression connectors installed with FARGO hi-temp, conductive-grit joint compound, FARGO type HTJC.
- (3) Limited by 80 deg C max requirement for clamptop end fitting on line post insulators.
- (4) These connectors, when properly installed with Fargo type UJC compound can be used on ACSR conductors up to 130° C or, with Fargo type HTJC compound on conductors up to 180° C. However, the aluminum conductor strands will anneal above 93 deg C. This annealing effect is cumulative and will, over time, reduce the available tension strength to that of the steel core.

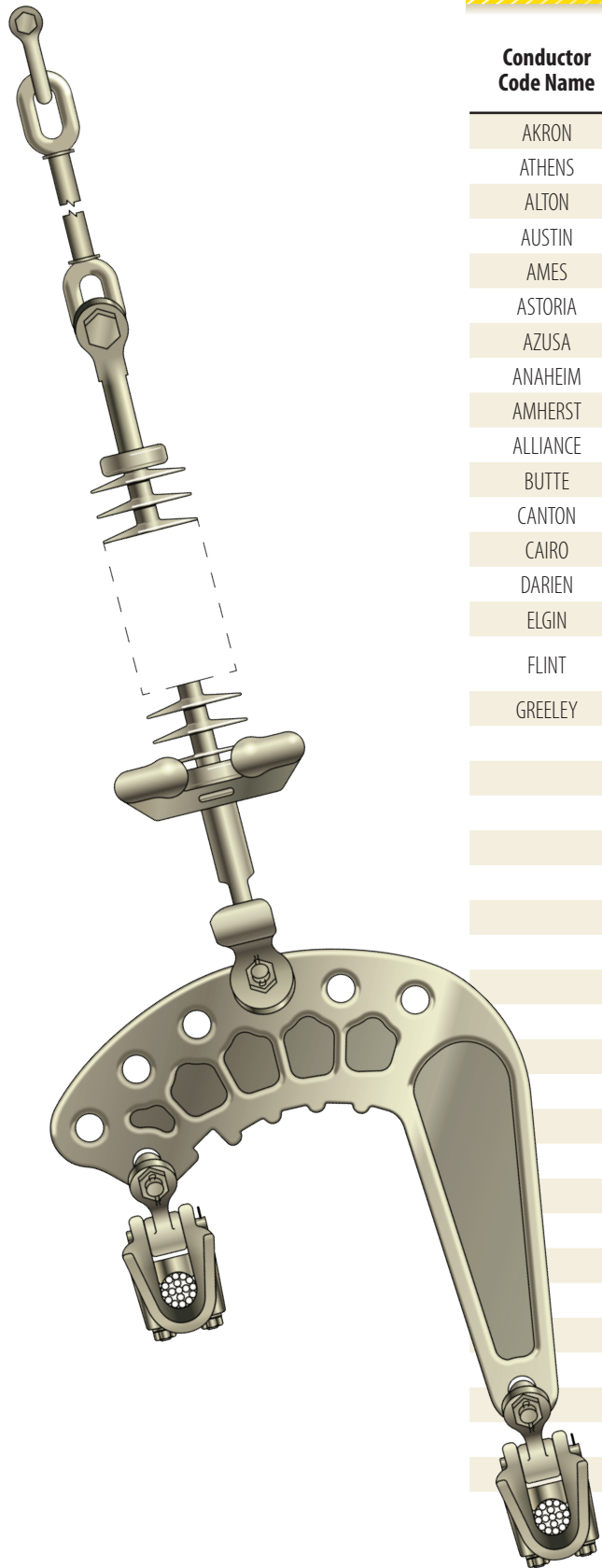
Letter Suffix Designations to Standard Catalog Numbers for Special Features

A suffix added to a catalog number denotes a change or modification is to be made to the standard catalog item. Suffixes listed below do not include special customer-specific modifications but only those having general application.

| Bolted Connectors | |
|--------------------|---|
| Catalog No. Suffix | Description of Change or Modification |
| BNK | Bolt, nut and cotter key will be supplied instead of usual clevis pin. |
| BNN | Bolt, nut and jam nut will be supplied instead of usual clevis pin. |
| BW | Belleville washers will be supplied instead of usual washer. |
| C | A clevis fitting will be supplied with strain, suspension and dead end clamps. |
| CRF | Corona free strain clamp. |
| FW | A flatwasher will be supplied instead of a lockwasher. |
| GA | Galvanized hardware will be supplied instead of usual hardware. |
| LN | A locknut will be supplied instead of usual hardware. |
| LW | A lockwasher will be supplied instead of a flatwasher. |
| N | Neither socket nor clevis fittings will be supplied with suspension, or dead end clamps. |
| S | A socket will be supplied with suspension and dead end clamp |
| SP | The catalog number specified is to be modified for particular requirement which the item will not otherwise fill. (Special) |
| UD | An undrilled tongue will be supplied on terminals or lugs |
| X | A hex nut will be supplied with shackles instead of usual jam nut. |
| XB | The connector will be supplied with the grooves coated with a petroleum based sealant and enclosed in a polyethylene bag. |

| Compression Connectors | |
|------------------------|--|
| Catalog No. Suffix | Description of Change or Modification |
| NT | No Terminal. Assembly is supplied without Terminal. |
| NP | No Pad. Assembly is supplied without NEMA pad. |
| NPNT | No Pad; No Terminal. Assembly is supplied without NEMA Pad and without Terminal. |
| SS | Stainless Steel hardware is supplied instead of usual hardware. |
| XL | Extra Length for repair application. One-Die Unigrip product offerings. |
| 1 | Single Piece Gripping Unit identifier for One-Die Unigrip product offerings. |
| P4 | 4-Hole pad instead of 2-Hole pad. |
| A253 | Special conductor size. |
| BSP | Bar Stock Pad identifier. |
| HT | High Temperature Application Identifier. |
| SSAC | Designed for ACSS Conductor. |
| STW | Designed for ACSS/TW Conductor. |
| SW | Shield Wire Connector identifier. |
| SWD | Shield Wire Deadend Connector Identifier. |
| S | Two Hole Pad - Vertical Eye; Shield Wire Deadend. |
| SH | Two Hole Pad - Horizontal Eye; Shield Wire Deadend. |
| J | U-Bolt Jumper Pad - Vertical Eye; Shield Wire Deadend |
| JH | U-Bolt Jumper Pad - Horizontal Eye; Shield Wire Deadend. |

AAAC Conductor Chart



Conductor Data

| Conductor Code Name | Strand | Diameter | Diameter Over Armor Rods | Rod Diameter |
|---------------------|--|----------------|--------------------------|----------------|
| AKRON | AAAC 6 str (7) | 0.197 | 0.439 | 0.121 |
| ATHENS | AAAC 5 str (7) | 0.221 | 0.463 | 0.121 |
| ALTON | AAAC 4 str (7) | 0.248 | 0.540 | 0.146 |
| AUSTIN | AAAC 3 str (7) | 0.279 | 0.571 | 0.146 |
| AMES | AAAC 2 str (7) | 0.314 | 0.586 | 0.136 |
| ASTORIA | AAAC 1 str (7) | 0.352 | 0.644 | 0.146 |
| AZUSA | AAAC 1/8 str (7) | 0.395 | 0.729 | 0.167 |
| ANAHEIM | AAAC 3/8 str (7) | 0.448 | 0.782 | 0.167 |
| AMHERST | AAAC 3/4 str (7) | 0.503 | 0.837 | 0.167 |
| ALLIANCE | AAAC 1/2 str (7) | 0.565 | 0.929 | 0.182 |
| BUTTE | AAAC 312.8 kcmil str (19) | 0.642 | 1.006 | 0.182 |
| CANTON | AAAC 394.6 kcmil str (19) | 0.721 | 1.129 | 0.204 |
| CAIRO | AAAC 466.3 kcmil str (19) | 0.784 | 1.284 | 0.250 |
| DARIEN | AAAC 559.6 kcmil str (19) | 0.858 | 1.358 | 0.250 |
| ELGIN | AAAC 652.4 kcmil str (19) | 0.927 | 1.427 | 0.250 |
| FLINT | AAAC 740.8 kcmil str (37) AAAC 833.6 kcmil str (37) | 0.991 1.051 | 1.611 1.671 | 0.310 0.310 |
| GREELEY | AAAC 927.2 kcmil str (37) | 1.108 | 1.728 | 0.310 |
| | AAAC 932.6 kcmil str (37) | 1.112 | 1.732 | 0.310 |
| | AAAC 1000 kcmil str (37) | 1.151 | 1.771 | 0.310 |
| | AAAC 1092.3 kcmil str (61) | 1.204 | 1.824 | 0.310 |
| | AAAC 1100 kcmil str (37) | 1.207 | 1.827 | 0.310 |
| | AAAC 1127 kcmil str (37) | 1.221 | 1.951 | 0.365 |
| | AAAC 1193.9 kcmil str (61) | 1.259 | 1.989 | 0.365 |
| | AAAC 1200 kcmil str (61) | 1.263 | 1.993 | 0.365 |
| | AAAC 1250 kcmil str (61) | 1.288 | 2.018 | 0.365 |
| | AAAC 1272 kcmil str (61) | 1.300 | 2.030 | 0.365 |
| | AAAC 1300 kcmil str (61) | 1.314 | 2.044 | 0.365 |
| | AAAC 1400 kcmil str (61) | 1.364 | 2.094 | 0.365 |
| | AAAC 1431 kcmil str (61) | 1.382 | 2.112 | 0.365 |
| | AAAC 1500 kcmil str (61) | 1.411 | 2.283 | 0.436 |
| | AAAC 1600 kcmil str (61) | 1.458 | 2.330 | 0.436 |
| | AAAC 1691 kcmil str (61) | 1.498 | 2.370 | 0.436 |
| | AAAC 1700 kcmil str (61) | 1.502 | 2.374 | 0.436 |
| | AAAC 1750 kcmil str (61) | 1.525 | 2.397 | 0.436 |
| | AAAC 1800 kcmil str (61) | 1.546 | 2.418 | 0.436 |
| | AAAC 1900 kcmil str (61) | 1.588 | 2.460 | 0.436 |
| | AAAC 2000 kcmil str (61) | 1.630 | 2.502 | 0.436 |
| | AAAC 2049.5 kcmil str (61) | 1.650 | 2.522 | 0.436 |
| | AAAC 2300 kcmil str (91) | 1.749 | 2.621 | 0.436 |
| | AAAC 2500 kcmil str (91) | 1.823 | 2.695 | 0.436 |

ACAR Conductor Chart

Conductor Data

| Strand | Diameter | Diameter Over Armor Rods | Rod Diameter |
|---------------------------|----------|--------------------------|--------------|
| ACAR 503.6 kcmil (15/4) | 0.814 | 1.314 | 0.250 |
| ACAR 545 kcmil (15/7) | 0.850 | 1.350 | 0.250 |
| ACAR 587.2 kcmil (15/4) | 0.879 | 1.379 | 0.250 |
| ACAR 649.5 kcmil (18/19) | 0.927 | 1.427 | 0.250 |
| ACAR 653.1 kcmil (12/7) | 0.927 | 1.427 | 0.250 |
| ACAR 653.1 kcmil (12/7) | 0.927 | 1.427 | 0.250 |
| ACAR 739.8 kcmil (18/19) | 0.990 | 1.610 | 0.310 |
| ACAR 853.7 kcmil (30/7) | 1.063 | 1.683 | 0.310 |
| ACAR 853.7 kcmil (24/13) | 1.063 | 1.683 | 0.310 |
| ACAR 927.2 kcmil (24/13) | 1.108 | 1.728 | 0.310 |
| ACAR 1024.5 kcmil (30/7) | 1.165 | 1.785 | 0.310 |
| ACAR 1024.5 kcmil (24/13) | 1.165 | 1.785 | 0.310 |
| ACAR 1080.6 kcmil (24/13) | 1.196 | 1.816 | 0.310 |
| ACAR 1080.6 kcmil (18/19) | 1.196 | 1.816 | 0.310 |
| ACAR 1109.0 kcmil (30/7) | 1.212 | 1.942 | 0.365 |
| ACAR 1109.0 kcmil (24/13) | 1.212 | 1.942 | 0.365 |
| ACAR 1172.0 kcmil (30/7) | 1.246 | 1.976 | 0.365 |
| ACAR 1172.0 kcmil (18/19) | 1.246 | 1.976 | 0.365 |
| ACAR 1198.0 kcmil (30/7) | 1.259 | 1.989 | 0.365 |
| ACAR 1198.0 kcmil (24/13) | 1.259 | 1.989 | 0.365 |
| ACAR 1277.0 kcmil (54/7) | 1.302 | 2.032 | 0.365 |
| ACAR 1277.0 kcmil (42/19) | 1.302 | 2.032 | 0.365 |
| ACAR 1361.5 kcmil (54/7) | 1.345 | 2.075 | 0.365 |
| ACAR 1534.4 kcmil (42/19) | 1.427 | 2.299 | 0.436 |
| ACAR 1703.0 kcmil (48/13) | 1.504 | 2.376 | 0.436 |
| ACAR 1798.0 kcmil (42/19) | 1.545 | 2.417 | 0.436 |
| ACAR 1933.0 kcmil (42/19) | 1.602 | 2.474 | 0.436 |
| ACAR 2338.0 kcmil (42/19) | 1.762 | 2.634 | 0.436 |
| ACAR 2338.0 kcmil (48/13) | 1.762 | 2.634 | 0.436 |
| ACAR 2493.0 kcmil (54/37) | 1.821 | 2.693 | 0.436 |
| ACAR 2493.0 kcmil (72/19) | 1.821 | 2.693 | 0.436 |
| ACAR 2500.0 kcmil (84/7) | 1.823 | 2.695 | 0.436 |

AAC Conductor Chart

| Conductor Data | | | | | | |
|---------------------|----------------------|----------|--------------------------|--------------|---------------------------|---------------------|
| Conductor Code Name | Strand | Diameter | Diameter Over Armor Rods | Rod Diameter | Diameter Over Line Guards | Line Guard Diameter |
| | AAC 14 sol | 0.064 | — | — | — | — |
| | AAC 12 sol | 0.081 | — | — | — | — |
| | AAC 10 sol | 0.102 | — | — | — | — |
| | AAC 9 sol | 0.114 | — | — | — | — |
| | AAC 8 sol | 0.129 | — | — | — | — |
| | AAC 7 sol | 0.144 | — | — | — | — |
| | AAC 6 sol | 0.162 | 0.404 | 0.121 | — | — |
| | AAC 5 sol | 0.182 | 0.424 | 0.121 | — | — |
| PEACHBELL | AAC 6 str (7) | 0.184 | 0.426 | 0.121 | 0.388 | 0.102 |
| | AAC 4 sol | 0.204 | 0.446 | 0.121 | 0.408 | 0.102 |
| | AAC 3 sol | 0.229 | 0.471 | 0.121 | 0.471 | 0.121 |
| ROSE | AAC 4 str (7) | 0.232 | 0.524 | 0.146 | 0.474 | 0.121 |
| | AAC 3 str (7) | 0.260 | 0.552 | 0.146 | 0.502 | 0.121 |
| IRIS | AAC 2 str (7) | 0.292 | 0.584 | 0.146 | 0.534 | 0.121 |
| PANSY | AAC 1 str (7) | 0.328 | 0.620 | 0.146 | 0.570 | 0.121 |
| | AAC 1 str (19) | 0.332 | 0.624 | 0.146 | 0.574 | 0.121 |
| POPPY | AAC ¾ str (7) | 0.368 | 0.660 | 0.146 | 0.610 | 0.121 |
| | AAC ¾ str (19) | 0.373 | 0.665 | 0.146 | 0.615 | 0.121 |
| ASTER | AAC ¾ str (7) | 0.414 | 0.706 | 0.146 | 0.656 | 0.121 |
| | AAC ¾ str (19) | 0.419 | 0.711 | 0.146 | 0.661 | 0.121 |
| PHLOX | AAC ¾ str (7) | 0.464 | 0.798 | 0.167 | 0.706 | 0.121 |
| | AAC ¾ str (19) | 0.470 | 0.804 | 0.167 | 0.712 | 0.121 |
| OXLIP | AAC ¾ str (7) | 0.522 | 0.856 | 0.167 | 0.764 | 0.121 |
| | AAC ¾ str (19) | 0.528 | 0.862 | 0.167 | 0.770 | 0.121 |
| VALERIAN | AAC 250 kcmil (19) | 0.574 | 0.938 | 0.182 | 0.816 | 0.121 |
| | AAC 250 kcmil (37) | 0.575 | 0.939 | 0.182 | 0.817 | 0.121 |
| LAUREL | AAC 266.8 kcmil (19) | 0.586 | 0.950 | 0.182 | 0.878 | 0.146 |
| | AAC 266.8 kcmil (37) | 0.593 | 0.957 | 0.182 | 0.885 | 0.146 |
| PEONY | AAC 300 kcmil (19) | 0.629 | 0.993 | 0.182 | 0.921 | 0.146 |
| | AAC 300 kcmil (61) | 0.631 | 0.995 | 0.182 | 0.923 | 0.146 |
| TUILP | AAC 336.4 kcmil (19) | 0.666 | 1.030 | 0.182 | 0.958 | 0.146 |
| DAFFODIL | AAC 350 kcmil (19) | 0.679 | 1.043 | 0.182 | 0.971 | 0.146 |
| | AAC 350 kcmil (37) | 0.681 | 1.089 | 0.204 | 0.973 | 0.146 |
| CANNA | AAC 397.5 kcmil (19) | 0.727 | 1.135 | 0.204 | 1.019 | 0.146 |
| | AAC 400 kcmil (37) | 0.728 | 1.136 | 0.204 | 1.020 | 0.146 |
| | AAC 450 kcmil (37) | 0.772 | 1.180 | 0.204 | 1.064 | 0.146 |

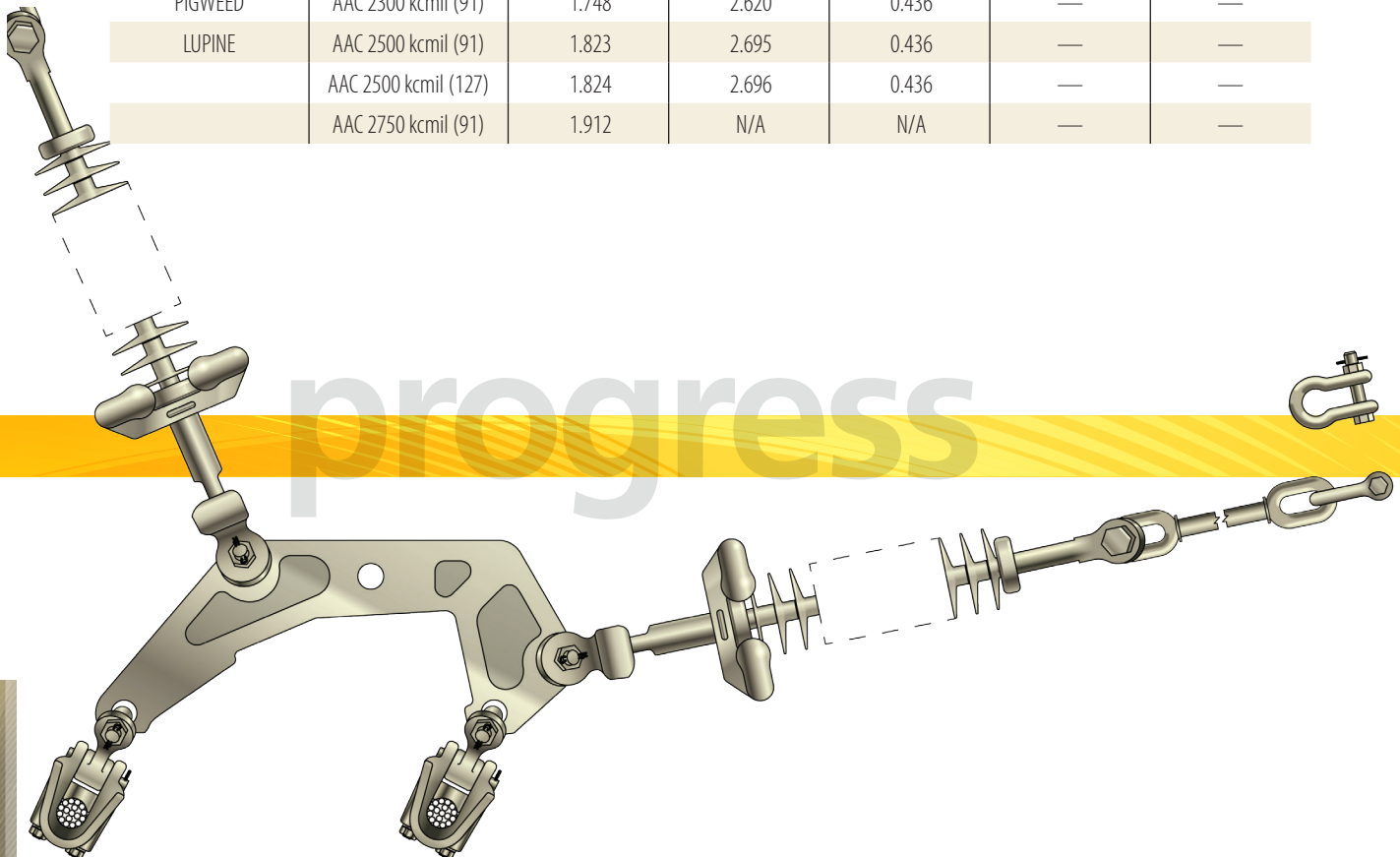
AAC Conductor Chart *(continued)*

| Conductor Data | | | | | | |
|---------------------|-----------------------|----------|--------------------------|--------------|---------------------------|---------------------|
| Conductor Code Name | Strand | Diameter | Diameter Over Armor Rods | Rod Diameter | Diameter Over Line Guards | Line Guard Diameter |
| COSMOS | AAC 477 kcmil (19) | 0.793 | 1.293 | 0.250 | 1.085 | 0.146 |
| SYRINGA | AAC 477 kcmil (37) | 0.795 | 1.295 | 0.250 | 1.087 | 0.146 |
| ZINNIA | AAC 500 kcmil (19) | 0.811 | 1.311 | 0.250 | 1.103 | 0.146 |
| | AAC 500 kcmil (37) | 0.813 | 1.313 | 0.250 | 1.105 | 0.146 |
| | AAC 550 kcmil (61) | 0.855 | 1.355 | 0.250 | 1.147 | 0.146 |
| DAHLIA | AAC 556.5 kcmil (19) | 0.856 | 1.356 | 0.250 | 1.148 | 0.146 |
| MISTLETOE | AAC 556.5 kcmil (37) | 0.858 | 1.358 | 0.250 | 1.150 | 0.146 |
| MEADOWSWEET | AAC 600 kcmil (37) | 0.891 | 1.391 | 0.250 | 1.183 | 0.146 |
| | AAC 600 kcmil (61) | 0.893 | 1.393 | 0.250 | 1.185 | 0.146 |
| ORCHID | AAC 636 kcmil (37) | 0.918 | 1.418 | 0.250 | 1.252 | 0.167 |
| | AAC 650 kcmil (61) | 0.929 | 1.429 | 0.250 | 1.263 | 0.167 |
| | AAC 650 kcmil (91) | 0.930 | 1.430 | 0.250 | 1.264 | 0.167 |
| VIOLET | AAC 700 kcmil (61) | 0.964 | 1.464 | 0.250 | 1.328 | 0.182 |
| | AAC 715.5 kcmil (37) | 0.974 | 1.474 | 0.250 | 1.338 | 0.182 |
| NASTURTIUM | AAC 715.5 kcmil (61) | 0.975 | 1.475 | 0.250 | 1.339 | 0.182 |
| | AAC 750 kcmil (61) | 0.998 | 1.618 | 0.310 | 1.362 | 0.182 |
| ARBUTUS | AAC 795 kcmil (37) | 1.026 | 1.646 | 0.310 | 1.390 | 0.182 |
| LILAC | AAC 795 kcmil (61) | 1.028 | 1.648 | 0.310 | 1.392 | 0.182 |
| | AAC 800 kcmil (61) | 1.031 | 1.651 | 0.310 | 1.395 | 0.182 |
| ANEMONE | AAC 874.5 kcmil (37) | 1.077 | 1.697 | 0.310 | 1.485 | 0.204 |
| CROCUS | AAC 874.5 kcmil (61) | 1.078 | 1.698 | 0.310 | 1.486 | 0.204 |
| COCKSCOMB | AAC 900 kcmil (37) | 1.092 | 1.712 | 0.310 | 1.500 | 0.204 |
| | AAC 900 kcmil (91) | 1.093 | 1.713 | 0.310 | 1.501 | 0.204 |
| | AAC 900 kcmil (61) | 1.094 | 1.714 | 0.310 | 1.502 | 0.204 |
| MAGNOLIA | AAC 954 kcmil (37) | 1.124 | 1.744 | 0.310 | 1.624 | 0.250 |
| GOLDENROD | AAC 954 kcmil (61) | 1.126 | 1.746 | 0.310 | 1.626 | 0.250 |
| | AAC 1000 kcmil (61) | 1.152 | 1.772 | 0.310 | 1.652 | 0.250 |
| BLUEBELL | AAC 1033.5 kcmil (37) | 1.170 | 1.790 | 0.310 | 1.670 | 0.250 |
| LARKSPUR | AAC 1033.5 kcmil (61) | 1.172 | 1.792 | 0.310 | 1.672 | 0.250 |
| | AAC 1100 kcmil (91) | 1.209 | 1.939 | 0.365 | 1.709 | 0.250 |
| MARIGOLD | AAC 1113 kcmil (61) | 1.216 | 1.946 | 0.365 | 1.716 | 0.250 |
| HAWTHORN | AAC 1192.5 kcmil (61) | 1.258 | 1.988 | 0.365 | 1.758 | 0.250 |
| | AAC 1200 kcmil (91) | 1.263 | 1.993 | 0.365 | 1.763 | 0.250 |
| | AAC 1250 kcmil (91) | 1.289 | 2.019 | 0.365 | 1.789 | 0.250 |

AAC Conductor Chart (continued)

Conductor Data

| Conductor Code Name | Strand | Diameter | Diameter Over Armor Rods | Rod Diameter | Diameter Over Line Guards | Line Guard Diameter |
|---------------------|-----------------------|----------|--------------------------|--------------|---------------------------|---------------------|
| NARCISSUS | AAC 1272 kcmil (61) | 1.300 | 2.030 | 0.365 | 1.800 | 0.250 |
| | AAC 1300 kcmil (91) | 1.314 | 2.044 | 0.365 | 1.814 | 0.250 |
| COLUMBINE | AAC 1351.5 kcmil (61) | 1.340 | 2.070 | 0.365 | 1.840 | 0.250 |
| | AAC 1400 kcmil (91) | 1.364 | 2.094 | 0.365 | 1.864 | 0.250 |
| CARNATION | AAC 1431 kcmil (61) | 1.379 | 2.109 | 0.365 | 1.879 | 0.250 |
| | AAC 1500 kcmil (91) | 1.412 | 2.284 | 0.436 | 2.032 | 0.310 |
| COREOPSIS | AAC 1510.5 kcmil (61) | 1.417 | 2.289 | 0.436 | 2.037 | 0.310 |
| | AAC 1590 kcmil (61) | 1.454 | 2.326 | 0.436 | 2.074 | 0.310 |
| COREOPSIS | AAC 1590 kcmil (91) | 1.454 | 2.326 | 0.436 | 2.074 | 0.310 |
| | AAC 1600 kcmil (127) | 1.459 | 2.331 | 0.436 | 2.079 | 0.310 |
| COREOPSIS | AAC 1700 kcmil (127) | 1.504 | 2.376 | 0.436 | 2.124 | 0.310 |
| | AAC 1750 kcmil (127) | 1.526 | 2.398 | 0.436 | — | — |
| COREOPSIS | AAC 1800 kcmil (127) | 1.548 | 2.420 | 0.436 | — | — |
| | AAC 1900 kcmil (127) | 1.590 | 2.462 | 0.436 | — | — |
| COWSLIP | AAC 2000 kcmil (91) | 1.630 | 2.502 | 0.436 | — | — |
| | AAC 2000 kcmil (127) | 1.632 | 2.504 | 0.436 | — | — |
| PIGWEEED | AAC 2250 kcmil (91) | 1.729 | 2.601 | 0.436 | — | — |
| | AAC 2300 kcmil (91) | 1.748 | 2.620 | 0.436 | — | — |
| LUPINE | AAC 2500 kcmil (91) | 1.823 | 2.695 | 0.436 | — | — |
| | AAC 2500 kcmil (127) | 1.824 | 2.696 | 0.436 | — | — |
| | AAC 2750 kcmil (91) | 1.912 | N/A | N/A | — | — |



ACSR ACSS Conductor Chart

Conductor Data

| Conductor Code Name | Strand | Core Diameter | Cable Diameter | Diameter Over Armor Rods | Rod Diameter | Diameter Over Line Guards | Line Guard Diameter | Size = ACSR Where Offered |
|---------------------|--------------------------|---------------|----------------|--------------------------|--------------|---------------------------|---------------------|---------------------------|
| Turkey | ACSR 6 (6/1) | 0.066 | 0.198 | 0.440 | 0.121 | 0.402 | 0.102 | — |
| Swan | ACSR 4 (6/1) | 0.083 | 0.250 | 0.542 | 0.146 | 0.492 | 0.121 | — |
| Swanate | ACSR 4 (7/1) | 0.102 | 0.257 | 0.549 | 0.146 | 0.499 | 0.121 | — |
| Sparrow | ACSR 2 (6/1) | 0.105 | 0.316 | 0.588 | 0.136 | 0.558 | 0.121 | — |
| Sparate | ACSR 2 (7/1) | 0.129 | 0.325 | 0.617 | 0.146 | 0.567 | 0.121 | — |
| Robin | ACSR 1 (6/1) | 0.118 | 0.355 | 0.647 | 0.146 | 0.597 | 0.121 | — |
| Raven | ACSR 1/0 (6/1) | 0.132 | 0.398 | 0.732 | 0.167 | 0.640 | 0.121 | — |
| Quail | ACSR 2/0 (6/1) | 0.149 | 0.447 | 0.781 | 0.167 | 0.689 | 0.121 | — |
| Petrel | ACSR 101.8 kcmil (12/7) | — | 0.461 | 0.795 | 0.167 | 0.703 | 0.121 | — |
| Minorca | ACSR 110.8 kcmil (12/7) | — | 0.481 | 0.815 | 0.167 | 0.723 | 0.121 | — |
| Pigeon | ACSR 3/0 (6/1) | 0.167 | 0.502 | 0.836 | 0.167 | 0.744 | 0.121 | — |
| Leghorn | ACSR 134.6 kcmil (12/7) | 0.187 | 0.530 | 0.864 | 0.167 | 0.772 | 0.121 | — |
| Penguin | ACSR 4/0 (6/1) | 0.187 | 0.563 | 0.927 | 0.182 | 0.805 | 0.121 | — |
| Guinea | ACSR 159.0 kcmil (12/7) | — | 0.576 | 0.940 | 0.182 | 0.818 | 0.121 | — |
| Dotterel | ACSR 176.9 kcmil (12/7) | — | 0.607 | 0.971 | 0.182 | 0.899 | 0.146 | — |
| Waxwing | ACSR 266.8 kcmil (18/1) | 0.121 | 0.609 | 0.973 | 0.182 | 0.901 | 0.146 | ACSS 266.8 kcmil (18/1) |
| Dorking | ACSR 190.8 kcmil (12/7) | — | 0.631 | 0.995 | 0.182 | 0.923 | 0.146 | — |
| Owl | ACSR 266.8 kcmil (6/7) | — | 0.633 | 0.997 | 0.182 | 0.925 | 0.146 | — |
| Partridge | ACSR 266.8 kcmil (26/7) | 0.236 | 0.642 | 1.006 | 0.182 | 0.934 | 0.146 | ACSS 266.8 kcmil (26/7) |
| Junco | ACSR 266.8 kcmil (30/7) | 0.283 | 0.660 | 1.024 | 0.182 | 0.952 | 0.146 | ACSS 266.8 kcmil (30/7) |
| Cochin | ACSR 211.3 kcmil (12/7) | — | 0.663 | 1.027 | 0.182 | 0.955 | 0.146 | — |
| Ostrich | ACSR 300.0 kcmil (26/7) | 0.251 | 0.680 | 1.088 | 0.204 | 0.972 | 0.146 | ACSS 300.0 kcmil (26/7) |
| Merlin | ACSR 336.4 kcmil (18/1) | 0.136 | 0.684 | 1.092 | 0.204 | 0.976 | 0.146 | ACSS 336.4 kcmil (18/1) |
| Woodcock | ACSR 336.4 kcmil (22/7) | 0.206 | 0.701 | 1.109 | 0.204 | 0.993 | 0.146 | ACSS 336.4 kcmil (22/7) |
| Brahma | ACSR 203.2 kcmil (16/19) | — | 0.714 | 1.122 | 0.204 | 1.006 | 0.146 | — |
| Linnet | ACSR 336.4 kcmil (26/7) | 0.265 | 0.720 | 1.128 | 0.204 | 1.012 | 0.146 | ACSS 336.4 kcmil (26/7) |
| Oriole | ACSR 336.4 kcmil (30/7) | 0.318 | 0.741 | 1.149 | 0.204 | 1.033 | 0.146 | ACSS 336.4 kcmil (30/7) |
| Chickadee | ACSR 397.5 kcmil (18/1) | 0.148 | 0.743 | 1.151 | 0.204 | 1.035 | 0.146 | ACSS 397.5 kcmil (18/1) |
| Ptarmigan | ACSR 397.5 kcmil (20/7) | 0.188 | 0.752 | 1.160 | 0.204 | 1.044 | 0.146 | ACSS 397.5 kcmil (20/7) |
| Brant | ACSR 397.5 kcmil (24/7) | 0.257 | 0.772 | 1.180 | 0.204 | 1.064 | 0.146 | ACSS 397.5 kcmil (24/7) |
| Ibis | ACSR 397.5 kcmil (26/7) | 0.288 | 0.783 | 1.283 | 0.250 | 1.075 | 0.146 | ACSS 397.5 kcmil (26/7) |
| Lark | ACSR 397.5 kcmil (30/7) | 0.345 | 0.806 | 1.306 | 0.250 | 1.098 | 0.146 | ACSS 397.5 kcmil (30/7) |
| Pelican | ACSR 477.0 kcmil (18/1) | 0.162 | 0.814 | 1.314 | 0.250 | 1.106 | 0.146 | ACSS 477.0 kcmil (18/1) |
| Tailorbird | ACSR 477.0 kcmil (20/7) | 0.206 | 0.823 | 1.323 | 0.250 | 1.115 | 0.146 | ACSS 477.0 kcmil (20/7) |
| Flicker | ACSR 477.0 kcmil (24/7) | 0.282 | 0.846 | 1.346 | 0.250 | 1.138 | 0.146 | ACSS 477.0 kcmil (24/7) |
| Hawk | ACSR 477.0 kcmil (26/7) | 0.316 | 0.858 | 1.358 | 0.250 | 1.150 | 0.146 | ACSS 477.0 kcmil (26/7) |

ACSR ACSS Conductor Chart (continued)

Conductor Data

| Conductor Code Name | Strand | Core Diameter | Cable Diameter | Diameter Over Armor Rods | Rod Diameter | Diameter Over Line Guards | Line Guard Diameter | Size = ACSR Where Offered |
|---------------------|--------------------------|---------------|----------------|--------------------------|--------------|---------------------------|---------------------|---------------------------|
| Osprey | ACSR 556.5 kcmil (18/1) | 0.175 | 0.879 | 1.379 | 0.250 | 1.171 | 0.146 | ACSS 556.5 kcmil (18/1) |
| Hen | ACSR 477.0 kcmil (30/7) | 0.378 | 0.883 | 1.383 | 0.250 | 1.175 | 0.146 | ACSS 477.0 kcmil (30/7) |
| Sapsucker | ACSR 556.5 kcmil (22/7) | 0.265 | 0.901 | 1.401 | 0.250 | 1.235 | 0.167 | ACSS 556.5 kcmil (22/7) |
| Parakeet | ACSR 556.5 kcmil (24/7) | 0.305 | 0.914 | 1.414 | 0.250 | 1.248 | 0.167 | ACSS 556.5 kcmil (24/7) |
| Dove | ACSR 556.5 kcmil (26/7) | 0.341 | 0.927 | 1.427 | 0.250 | 1.291 | 0.182 | ACSS 556.5 kcmil (26/7) |
| Swift | ACSR 636.0 kcmil (36/1) | 0.133 | 0.930 | 1.430 | 0.250 | 1.294 | 0.182 | ACSS 636.0 kcmil (36/1) |
| Kingbird | ACSR 636.0 kcmil (18/1) | 0.188 | 0.940 | 1.440 | 0.250 | 1.304 | 0.182 | ACSS 636.0 kcmil (18/1) |
| Peacock | ACSR 605.0 kcmil (24/7) | 0.318 | 0.953 | 1.453 | 0.250 | 1.317 | 0.182 | ACSS 605.0 kcmil (24/7) |
| Eagle | ACSR 556.5 kcmil (30/7) | 0.407 | 0.953 | 1.453 | 0.250 | 1.317 | 0.182 | ACSS 556.5 kcmil (30/7) |
| Squab | ACSR 605.0 kcmil (26/7) | 0.356 | 0.966 | 1.466 | 0.250 | 1.330 | 0.182 | ACSS 605.0 kcmil (26/7) |
| Goldfinch | ACSR 636.0 kcmil (22/7) | 0.283 | 0.963 | 1.463 | 0.250 | 1.327 | 0.182 | ACSS 636.0 kcmil (22/7) |
| Rook | ACSR 636.0 kcmil (24/7) | 0.326 | 0.977 | 1.597 | 0.310 | 1.341 | 0.182 | ACSS 636.0 kcmil (24/7) |
| Grosbeak | ACSR 636.0 kcmil (26/7) | 0.365 | 0.990 | 1.610 | 0.310 | 1.354 | 0.182 | ACSS 636.0 kcmil (26/7) |
| Wood Duck | ACSR 605.0 kcmil (30/7) | 0.426 | 0.994 | 1.614 | 0.310 | 1.358 | 0.182 | ACSS 605.0 kcmil (30/7) |
| Teal | ACSR 605.0 kcmil (30/19) | 0.426 | 0.994 | 1.614 | 0.310 | 1.358 | 0.182 | ACSS 605.0 kcmil (30/19) |
| Flamingo | ACSR 666.6 kcmil (24/7) | 0.333 | 1.000 | 1.620 | 0.310 | 1.364 | 0.182 | ACSS 666.6 kcmil (24/7) |
| Gannet | ACSR 666.6 kcmil (26/7) | 0.374 | 1.014 | 1.634 | 0.310 | 1.378 | 0.182 | ACSS 666.6 kcmil (26/7) |
| Scooter | ACSR 636.0 kcmil (30/7) | 0.437 | 1.019 | 1.639 | 0.310 | 1.383 | 0.182 | ACSS 636.0 kcmil (30/7) |
| Egret | ACSR 636.0 kcmil (30/19) | 0.437 | 1.019 | 1.639 | 0.310 | 1.383 | 0.182 | ACSS 636.0 kcmil (30/19) |
| Stilt | ACSR 715.5 kcmil (24/7) | 0.345 | 1.036 | 1.656 | 0.310 | 1.400 | 0.182 | ACSS 715.5 kcmil (24/7) |
| Coot | ACSR 795.0 kcmil (36/1) | — | 1.040 | 1.660 | 0.310 | 1.404 | 0.182 | ACSS 795.0 kcmil (36/1) |
| Starling | ACSR 715.5 kcmil (26/7) | 0.387 | 1.051 | 1.671 | 0.310 | 1.415 | 0.182 | ACSS 715.5 kcmil (26/7) |
| Macaw | ACSR 795.0 kcmil (42/7) | 0.463 | 1.055 | 1.675 | 0.310 | 1.419 | 0.182 | ACSS 795.0 kcmil (42/7) |
| Tern | ACSR 795.0 kcmil (45/7) | 0.266 | 1.063 | 1.683 | 0.310 | 1.427 | 0.182 | ACSS 795.0 kcmil (45/7) |
| Redwing | ACSR 715.5 kcmil (30/19) | 0.463 | 1.081 | 1.701 | 0.310 | 1.489 | 0.204 | ACSS 715.5 kcmil (30/19) |
| Cuckoo | ACSR 795.0 kcmil (24/7) | 0.364 | 1.092 | 1.712 | 0.310 | 1.500 | 0.204 | ACSS 795.0 kcmil (24/7) |
| Condor | ACSR 795.0 kcmil (54/7) | 0.364 | 1.092 | 1.712 | 0.310 | 1.500 | 0.204 | ACSS 795.0 kcmil (54/7) |
| Drake | ACSR 795.0 kcmil (26/7) | 0.408 | 1.108 | 1.728 | 0.310 | 1.608 | 0.250 | ACSS 795.0 kcmil (26/7) |
| Ruddy | ACSR 900.0 kcmil (45/7) | 0.283 | 1.131 | 1.751 | 0.310 | 1.631 | 0.250 | ACSS 900.0 kcmil (45/7) |
| Catbird | ACSR 954.0 kcmil (36/1) | — | 1.140 | 1.760 | 0.310 | 1.640 | 0.250 | ACSS 954.0 kcmil (36/1) |
| Mallard | ACSR 795.0 kcmil (30/19) | 0.489 | 1.140 | 1.760 | 0.310 | 1.640 | 0.250 | ACSS 795.0 kcmil (30/19) |
| Crane | ACSR 874.5 kcmil (54/7) | — | 1.146 | 1.766 | 0.310 | 1.646 | 0.250 | ACSS 874.5 kcmil (54/7) |
| Canary | ACSR 900.0 kcmil (54/7) | 0.387 | 1.162 | 1.782 | 0.310 | 1.662 | 0.250 | ACSS 900.0 kcmil (54/7) |
| Rail | ACSR 954.0 kcmil (45/7) | 0.291 | 1.165 | 1.785 | 0.310 | 1.665 | 0.250 | ACSS 954.0 kcmil (45/7) |

ACSR ACSS Conductor Chart *(continued)*

Conductor Data

| Conductor Code Name | Strand | Core Diameter | Cable Diameter | Diameter Over Armor Rods | Rod Diameter | Diameter Over Line Guards | Line Guard Diameter | Size = ACSR Where Offered |
|---------------------|---------------------------|---------------|----------------|--------------------------|--------------|---------------------------|---------------------|---------------------------|
| Towhee | ACSR 954.0 kcmil (48/7) | 0.329 | 1.175 | 1.795 | 0.310 | 1.675 | 0.250 | ACSS 954.0 kcmil (48/7) |
| Tanager | ACSR 1033.5 kcmil (36/1) | — | 1.186 | 1.806 | 0.310 | 1.686 | 0.250 | ACSS 1033.5 kcmil (36/1) |
| Redbird | ACSR 954.0 kcmil (24/7) | 0.399 | 1.196 | 1.816 | 0.310 | 1.696 | 0.250 | ACSS 954.0 kcmil (24/7) |
| Cardinal | ACSR 954.0 kcmil (54/7) | 0.399 | 1.196 | 1.816 | 0.310 | 1.696 | 0.250 | ACSS 954.0 kcmil (54/7) |
| Snowbird | ACSR 1033.5 kcmil (42/7) | 0.262 | 1.203 | 1.823 | 0.310 | 1.703 | 0.250 | ACSS 1033.5 kcmil (42/7) |
| Ortolan | ACSR 1033.5 kcmil (45/7) | 0.303 | 1.212 | 1.942 | 0.365 | 1.712 | 0.250 | ACSS 1033.5 kcmil (45/7) |
| Curlew | ACSR 1033.5 kcmil (54/7) | 0.415 | 1.245 | 1.975 | 0.365 | 1.745 | 0.250 | ACSS 1033.5 kcmil (54/7) |
| Canvasback | ACSR 954.0 kcmil (30/19) | 0.535 | 1.248 | 1.978 | 0.365 | 1.748 | 0.250 | ACSS 954.0 kcmil (30/19) |
| Bluejay | ACSR 1113.0 kcmil (45/7) | 0.315 | 1.259 | 1.989 | 0.365 | 1.759 | 0.250 | ACSS 1113.0 kcmil (45/7) |
| Finch | ACSR 1113.0 kcmil (54/19) | 0.431 | 1.293 | 2.023 | 0.365 | 1.793 | 0.250 | ACSS 1113.0 kcmil (54/19) |
| Bunting | ACSR 1192.5 kcmil (45/7) | 0.326 | 1.302 | 2.032 | 0.365 | 1.802 | 0.250 | ACSS 1192.5 kcmil (45/7) |
| Skylark | ACSR 1272.0 kcmil (36/1) | — | 1.316 | 2.046 | 0.365 | 1.816 | 0.250 | ACSS 1272.0 kcmil (36/1) |
| Grackle | ACSR 1192.5 kcmil (54/19) | 0.446 | 1.338 | 2.068 | 0.365 | 1.838 | 0.250 | ACSS 1192.5 kcmil (54/19) |
| Bittern | ACSR 1272.0 kcmil (45/7) | 0.336 | 1.345 | 2.075 | 0.365 | 1.845 | 0.250 | ACSS 1272.0 kcmil (45/7) |
| Pheasant | ACSR 1272.0 kcmil (54/19) | 0.461 | 1.382 | 2.112 | 0.365 | 1.882 | 0.250 | ACSS 1272.0 kcmil (54/19) |
| Dipper | ACSR 1351.5 kcmil (45/7) | 0.347 | 1.386 | 2.116 | 0.365 | 1.886 | 0.250 | ACSS 1351.5 kcmil (45/7) |
| Martin | ACSR 1351.5 kcmil (54/19) | 0.475 | 1.424 | 2.296 | 0.436 | 2.044 | 0.310 | ACSS 1351.5 kcmil (54/19) |
| Bobolink | ACSR 1431.0 kcmil (45/7) | 0.357 | 1.427 | 2.299 | 0.436 | 2.047 | 0.310 | ACSS 1431.0 kcmil (45/7) |
| Plover | ACSR 1431.0 kcmil (54/19) | 0.489 | 1.465 | 2.337 | 0.436 | 2.085 | 0.310 | ACSS 1431.0 kcmil (54/19) |
| Nuthatch | ACSR 1510.5 kcmil (45/7) | 0.366 | 1.466 | 2.338 | 0.436 | 2.086 | 0.310 | ACSS 1510.5 kcmil (45/7) |
| Ratite | ACSR 1590.0 kcmil (42/7) | 0.324 | 1.492 | 2.364 | 0.436 | 2.112 | 0.310 | ACSS 1590.0 kcmil (42/7) |
| Lapwing | ACSR 1590.0 kcmil (45/7) | 0.376 | 1.502 | 2.374 | 0.436 | 2.122 | 0.310 | ACSS 1590.0 kcmil (45/7) |
| Parrot | ACSR 1510.5 kcmil (54/19) | 0.502 | 1.505 | 2.377 | 0.436 | 2.125 | 0.310 | ACSS 1510.5 kcmil (54/19) |
| Falcon | ACSR 1590.0 kcmil (54/19) | 0.515 | 1.545 | 2.417 | 0.436 | — | — | ACSS 1590.0 kcmil (54/19) |
| Chukar | ACSR 1780.0 kcmil (84/19) | 0.437 | 1.602 | 2.474 | 0.436 | — | — | ACSS 1780.0 kcmil (84/19) |
| Seahawk | ACSR 1869.0 kcmil (68/7) | — | 1.603 | 2.475 | 0.436 | — | — | ACSS 1869.0 kcmil (68/7) |
| Mockingbird | ACSR 2034.5 kcmil (72/7) | 0.336 | 1.681 | 2.553 | 0.436 | — | 0.365 | ACSS 2034.5 kcmil (72/7) |
| Roadrunner | ACSR 2057.0 kcmil (76/19) | 0.384 | 1.700 | 2.572 | 0.436 | — | 0.365 | ACSR 2057.0 kcmil (76/19) |
| Kiwi | ACSR 2167.0 kcmil (72/7) | 0.347 | 1.735 | 2.607 | 0.436 | — | 0.365 | ACSS 2167.0 kcmil (72/7) |
| Bluebird | ACSR 2156.0 kcmil (84/19) | 0.481 | 1.762 | 2.634 | 0.436 | — | — | ACSS 2156.0 kcmil (84/19) |
| Thrasher | ACSR 2312.0 kcmil (76/19) | 0.407 | 1.802 | 2.674 | 0.436 | — | — | ACSS 2312.0 kcmil (76/19) |
| Joree | ACSR 2515.0 kcmil (76/19) | 0.425 | 1.880 | 2.752 | 0.436 | — | — | ACSS 2515.0 kcmil (76/19) |

ACSR/TW & ACSS/TW Conductor Chart

Conductor Data

| Conductor Code Name | Strand | Core Diameter | Cable Diameter | Diameter Over Armor Rods | Rod Diameter | Diameter Over Line Guards | Line Guard Diameter |
|---------------------|----------------------|---------------|----------------|--------------------------|--------------|---------------------------|---------------------|
| Partridge | 266.8 kcmil Type 16 | 0.236 | 0.591 | 0.955 | 0.182 | 0.833 | 0.121 |
| Oriole | 336.4 kcmil Type 23 | 0.318 | 0.693 | 1.101 | 0.204 | 0.985 | 0.146 |
| Flicker | 477.0 kcmil Type 13 | 0.282 | 0.776 | 1.184 | 0.204 | 1.068 | 0.146 |
| Hawk | 477.0 kcmil Type 16 | 0.316 | 0.789 | 1.289 | 0.250 | 1.081 | 0.146 |
| Hen | 477.0 kcmil Type 23 | 0.378 | 0.825 | 1.325 | 0.250 | 1.117 | 0.146 |
| Parakeet | 556.5 kcmil Type 13 | 0.305 | 0.835 | 1.335 | 0.250 | 1.127 | 0.146 |
| Dove | 556.5 kcmil Type 16 | 0.341 | 0.852 | 1.352 | 0.250 | 1.144 | 0.146 |
| Calumet | 565.3 kcmil Type 16 | 0.344 | 0.858 | 1.358 | 0.250 | 1.150 | 0.146 |
| Mohawk | 571.7 kcmil Type 13 | 0.309 | 0.846 | 1.346 | 0.250 | 1.138 | 0.146 |
| Rook | 636.0 kcmil Type 13 | 0.326 | 0.890 | 1.390 | 0.250 | 1.182 | 0.146 |
| Grosbeak | 636.0 kcmil Type 16 | 0.365 | 0.908 | 1.408 | 0.250 | 1.242 | 0.167 |
| Oswego | 664.8 kcmil Type 16 | 0.373 | 0.927 | 1.427 | 0.250 | 1.261 | 0.167 |
| Mystic | 666.6 kcmil Type 13 | 0.333 | 0.913 | 1.413 | 0.250 | 1.247 | 0.167 |
| Wabash | 762.8 kcmil Type 16 | 0.399 | 0.990 | 1.610 | 0.310 | 1.354 | 0.182 |
| Maumee | 768.2 kcmil Type 13 | 0.359 | 0.977 | 1.597 | 0.310 | 1.341 | 0.182 |
| Tern | 795.0 kcmil Type 7 | 0.266 | 0.960 | 1.460 | 0.250 | 1.324 | 0.182 |
| Condor | 795.0 kcmil Type 13 | 0.364 | 0.993 | 1.613 | 0.310 | 1.357 | 0.182 |
| Drake | 795.0 kcmil Type 16 | 0.408 | 1.010 | 1.630 | 0.310 | 1.374 | 0.182 |
| Canary | 900.0 kcmil Type 13 | 0.387 | 1.080 | 1.700 | 0.310 | 1.488 | 0.204 |
| Fraser | 946.7 kcmil Type 10 | 0.346 | 1.077 | 1.697 | 0.310 | 1.485 | 0.204 |
| Rail | 954.0 kcmil Type 7 | 0.291 | 1.061 | 1.681 | 0.310 | 1.425 | 0.182 |
| Cardinal | 954.0 kcmil Type 13 | 0.399 | 1.084 | 1.704 | 0.310 | 1.492 | 0.204 |
| Kettle | 957.2 kcmil Type 7 | 0.292 | 1.060 | 1.680 | 0.310 | 1.424 | 0.182 |
| Suwanee | 959.6 kcmil Type 16 | 0.448 | 1.108 | 1.728 | 0.310 | 1.608 | 0.250 |
| Columbia | 966.2 kcmil Type 13 | 0.401 | 1.092 | 1.712 | 0.310 | 1.500 | 0.204 |
| Ortolan | 1033.5 kcmil Type 7 | 0.303 | 1.102 | 1.722 | 0.310 | 1.602 | 0.250 |
| Curlew | 1033.5 kcmil Type 13 | 0.415 | 1.129 | 1.749 | 0.310 | 1.629 | 0.250 |
| Bluejay | 1113.0 kcmil Type 7 | 0.315 | 1.143 | 1.763 | 0.310 | 1.643 | 0.250 |
| Finch | 1113.0 kcmil Type 13 | 0.431 | 1.185 | 1.805 | 0.310 | 1.685 | 0.250 |
| Genesee | 1158.0 kcmil Type 7 | 0.323 | 1.165 | 1.785 | 0.310 | 1.665 | 0.250 |
| Hudson | 1158.4 kcmil Type 13 | 0.440 | 1.196 | 1.816 | 0.310 | 1.696 | 0.250 |
| Cheyenne | 1168.1 kcmil Type 5 | 0.278 | 1.155 | 1.775 | 0.310 | 1.655 | 0.250 |

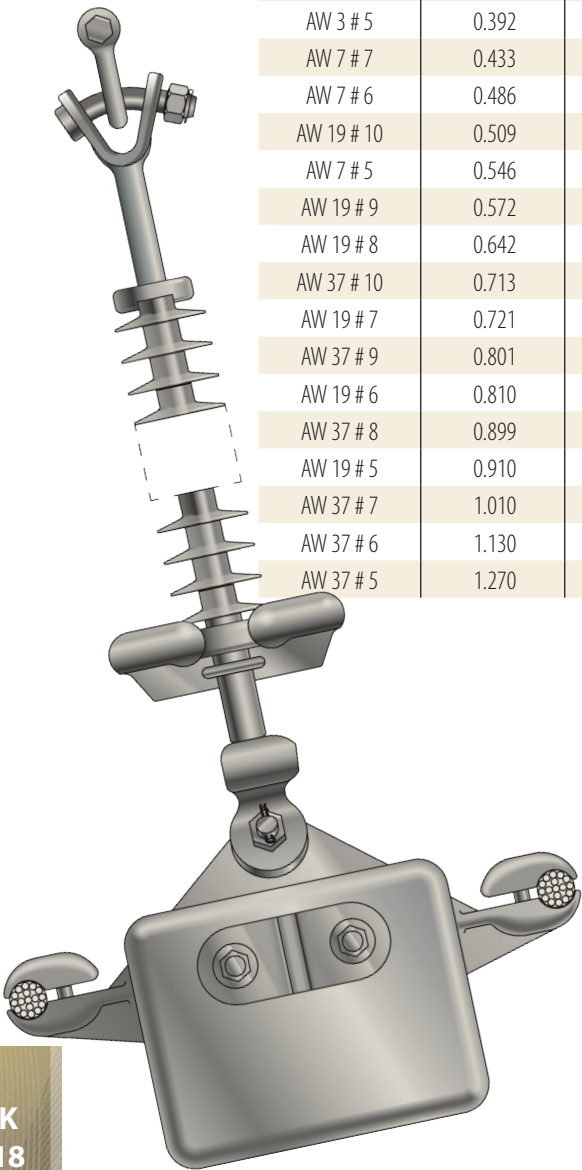
ACSR/TW & ACSS/TW Conductor Chart *(continued)*

| Conductor Data | | | | | | | |
|---------------------|----------------------|---------------|----------------|--------------------------|--------------|---------------------------|---------------------|
| Conductor Code Name | Strand | Core Diameter | Cable Diameter | Diameter Over Armor Rods | Rod Diameter | Diameter Over Line Guards | Line Guard Diameter |
| Bunting | 1192.5 kcmil Type 7 | 0.326 | 1.181 | 1.801 | 0.310 | 1.681 | 0.250 |
| Grackle | 1192.5 kcmil Type 13 | 0.446 | 1.225 | 1.955 | 0.365 | 1.725 | 0.250 |
| Yukon | 1233.6 kcmil Type 13 | 0.455 | 1.245 | 1.975 | 0.365 | 1.745 | 0.250 |
| Nelson | 1257.1 kcmil Type 7 | 0.335 | 1.213 | 1.943 | 0.365 | 1.713 | 0.250 |
| Scissortail | 1272.0 kcmil Type 5 | 0.290 | 1.203 | 1.933 | 0.365 | 1.703 | 0.250 |
| Bittern | 1272.0 kcmil Type 7 | 0.336 | 1.220 | 1.950 | 0.365 | 1.720 | 0.250 |
| Pheasant | 1272.0 kcmil Type 13 | 0.461 | 1.264 | 1.994 | 0.365 | 1.764 | 0.250 |
| Thames | 1334.6 kcmil Type 13 | 0.472 | 1.290 | 2.020 | 0.365 | 1.790 | 0.250 |
| Dipper | 1351.5 kcmil Type 7 | 0.347 | 1.256 | 1.986 | 0.365 | 1.756 | 0.250 |
| Martin | 1351.5 kcmil Type 13 | 0.475 | 1.300 | 2.030 | 0.365 | 1.800 | 0.250 |
| Mackenzie | 1359.7 kcmil Type 7 | 0.348 | 1.259 | 1.989 | 0.365 | 1.759 | 0.250 |
| Truckee | 1372.5 kcmil Type 5 | 0.301 | 1.248 | 1.978 | 0.365 | 1.748 | 0.250 |
| Bobolink | 1431.0 kcmil Type 7 | 0.357 | 1.291 | 2.021 | 0.365 | 1.791 | 0.250 |
| Plover | 1431.0 kcmil Type 13 | 0.489 | 1.337 | 2.067 | 0.365 | 1.837 | 0.250 |
| Merrimack | 1433.6 kcmil Type 13 | 0.489 | 1.340 | 2.070 | 0.365 | 1.840 | 0.250 |
| Miramichi | 1455.3 kcmil Type 7 | 0.360 | 1.302 | 2.032 | 0.365 | 1.802 | 0.250 |
| St. Croix | 1467.8 kcmil Type 5 | 0.312 | 1.292 | 2.022 | 0.365 | 1.792 | 0.250 |
| Rio Grande | 1533.3 kcmil Type 13 | 0.506 | 1.382 | 2.112 | 0.365 | 1.882 | 0.250 |
| Potomac | 1557.4 kcmil Type 7 | 0.372 | 1.345 | 2.075 | 0.365 | 1.845 | 0.250 |
| Platte | 1569.0 kcmil Type 5 | 0.322 | 1.334 | 2.064 | 0.365 | 1.834 | 0.250 |
| Lapwing | 1590.0 kcmil Type 7 | 0.376 | 1.358 | 2.088 | 0.365 | 1.858 | 0.250 |
| Falcon | 1590.0 kcmil Type 13 | 0.515 | 1.408 | 2.280 | 0.436 | 2.028 | 0.310 |
| Pecos | 1622.0 kcmil Type 13 | 0.532 | 1.424 | 2.296 | 0.436 | 2.044 | 0.310 |
| Schuykill | 1657.4 kcmil Type 7 | 0.384 | 1.386 | 2.116 | 0.365 | 1.886 | 0.250 |
| James | 1730.6 kcmil Type 13 | 0.538 | 1.470 | 2.342 | 0.436 | 2.090 | 0.310 |
| Pee Dee | 1758.6 kcmil Type 7 | 0.396 | 1.427 | 2.299 | 0.436 | 2.047 | 0.310 |
| Chukar | 1780.0 kcmil Type 8 | 0.437 | 1.445 | 2.317 | 0.436 | 2.065 | 0.310 |
| Cumberland | 1926.9 kcmil Type 13 | 0.567 | 1.545 | 2.417 | 0.436 | — | — |
| Athabaska | 1949.6 kcmil Type 7 | 0.418 | 1.504 | 2.376 | 0.436 | 2.124 | 0.310 |
| Powder | 2153.8 kcmil Type 8 | 0.481 | 1.602 | 2.474 | 0.436 | — | — |
| Bluebird | 2156.0 kcmil Type 8 | 0.481 | 1.608 | 2.480 | 0.436 | — | — |
| Santee | 2627.3 kcmil Type 8 | 0.531 | 1.762 | 2.634 | 0.436 | — | — |

AW EHS Conductor Chart

Conductor Data

| Alumoweld® | | | | EHS Steel | | | |
|------------|----------|--------------------------|--------------|-------------------|----------|--------------------------|--------------|
| Strand | Diameter | Diameter Over Armor Rods | Rod Diameter | Strand | Diameter | Diameter Over Armor Rods | Rod Diameter |
| AW 3 # 10 | 0.220 | 0.424 | 0.102 | EHS ¼" str (3) | 0.250 | 0.422 | 0.086 |
| AW 7 # 12 | 0.242 | 0.446 | 0.102 | EHS ¼" str (7) | 0.250 | 0.422 | 0.086 |
| AW 3 # 9 | 0.247 | 0.451 | 0.102 | EHS ⅝" str (3) | 0.312 | 0.512 | 0.100 |
| AW 3 # 8 | 0.277 | 0.505 | 0.114 | EHS ⅝" str (7) | 0.312 | 0.512 | 0.100 |
| AW 7 # 10 | 0.306 | 0.534 | 0.114 | EHS ⅝" str (7) | 0.312 | 0.512 | 0.100 |
| AW 3 # 7 | 0.311 | 0.539 | 0.114 | EHS ¾" str (3) | 0.360 | 0.560 | 0.100 |
| AW 7 # 9 | 0.343 | 0.571 | 0.114 | EHS ¾" str (7) | 0.360 | 0.560 | 0.100 |
| AW 3 # 6 | 0.349 | 0.577 | 0.114 | EHS ⅞" str (7) | 0.435 | 0.673 | 0.119 |
| AW 7 # 8 | 0.385 | 0.613 | 0.114 | EHS ½" str (7) | 0.495 | 0.771 | 0.138 |
| AW 3 # 5 | 0.392 | 0.648 | 0.128 | EHS ½" str (19) | 0.495 | 0.771 | 0.138 |
| AW 7 # 7 | 0.433 | 0.648 | 0.128 | EHS ⅞" str (7) | 0.562 | — | — |
| AW 7 # 6 | 0.486 | 0.689 | 0.128 | EHS ⅞" str (19) | 0.562 | — | — |
| AW 19 # 10 | 0.509 | 0.742 | 0.128 | EHS ⅞" str (7) | 0.625 | — | — |
| AW 7 # 5 | 0.546 | 0.797 | 0.144 | EHS ⅞" str (19) | 0.625 | — | — |
| AW 19 # 9 | 0.572 | 0.834 | 0.144 | EHS 1⅛" str (19) | 0.688 | — | — |
| AW 19 # 8 | 0.642 | — | — | EHS ¾" str (19) | 0.750 | — | — |
| AW 37 # 10 | 0.713 | — | — | EHS 1⅜" str (19) | 0.813 | — | — |
| AW 19 # 7 | 0.721 | — | — | EHS 7⁄8" str (19) | 0.875 | — | — |
| AW 37 # 9 | 0.801 | — | — | EHS 1⅝" str (19) | 0.938 | — | — |
| AW 19 # 6 | 0.810 | — | — | EHS 1" str (19) | 1.000 | — | — |
| AW 37 # 8 | 0.899 | — | — | EHS 1" str (37) | 1.000 | — | — |
| AW 19 # 5 | 0.910 | — | — | EHS 1⅞" str (37) | 1.063 | — | — |
| AW 37 # 7 | 1.010 | — | — | EHS 1⅞" str (37) | 1.125 | — | — |
| AW 37 # 6 | 1.130 | — | — | EHS 1⅜" str (37) | 1.188 | — | — |
| AW 37 # 5 | 1.270 | — | — | EHS 1¼" str (37) | 1.250 | — | — |





About Hubbell Power Systems

Hubbell Power Systems (HPS) manufactures a wide variety of transmission, distribution, substation, OEM and telecommunications products used by utilities. HPS products are also used in the civil construction, transportation, gas and water industries. Our product line includes construction and switching products, tools, insulators, arresters, pole line hardware, cable accessories, test equipment, transformer bushings and polymer precast enclosures and equipment pads.

Because Hubbell has a policy of continuous product improvement. We reserve the right to change design and specifications without notice.

©Copyright 2016 Hubbell Incorporated
Printed in U.S.A.

CA_05_063_E

www.hubbellpowersystems.com

