ANDERSON™ & FARGO

TRANSMISSION CONNECTORS



HUBBELL®

TRANSMISSION CONNECTORS

Line & Tower Hardware

Suspension Clamps

Deadends

Splices & Sleeves

Jumper Terminals & Tee Taps

Joint Compound/Inhibitor

Conductor Protection

Assemblies

Construction Accessories

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HUBBELL POWER SYSTEMS, INC.
TERMS & CONDITIONS OF SALES

These terms and conditions of sales ("terms and conditions") apply to the purchase by Buyer of any and all Hubbell Power Systems, Inc. ("HPS") products. HPS hereby gives notice of its rejection to any different or additional terms and conditions other than as stated herein. Buyer's acceptance of the provisions of HPS's terms and conditions as recited herein shall be conclusively presumed upon Buyer's receipt of the product(s), or if no written objection is received by HPS within fifteen (15) days from the date on HPS's order acknowledgment, whichever event shall first occur.

PRICING
Refer to appropriate Price Schedule, unless otherwise quoted.

TERMS
Payment terms are net 30 days. Invoices will be dated the day of shipment. A service charge of 1-1/2% per month or, if such rate exceeds the maximum lawful rate, the maximum lawful rate shall be assessed on all past due accounts and shall be payable on demand.

QUOTATIONS
Unless otherwise stated in writing, HPS' quotations are subject to acceptance by the Buyer within thirty (30) days from the date of issue.

SALES AND SIMILAR TAXES
Prices do not include any sales, use, excise or similar taxes. Consequently, in addition to the price specified herein, the amount of any present or future sales, use, excise or other similar tax applicable to the sale or use of the equipment hereunder, shall be paid by the Buyer, or in lieu thereof the Buyer shall provide HPS with a tax exemption certificate acceptable to the taxing authorities.

ACCEPTANCE OF ORDERS
All orders are subject to final acceptance by HPS. Any other terms proposed by Buyer are rejected unless expressly accepted in writing. Orders shall be deemed to be executed in the State of Missouri and shall be construed and performed in accordance with the laws of that State. Acceptance of any order is subject to availability of product and the ability of HPS to deliver. Orders will be billed at prices in effect at time of shipment unless otherwise agreed. Unless otherwise stated in writing, HPS reserves the right to ship plus or minus 10% of specified quantity for special products that are made to order.

SALES BY AGENTS
Sales by agents or through overseas representatives shall be at prices, terms and conditions of sale specified by HPS. All invoices will be issued by and payment remitted to HPS.

DELAY
HPS will use reasonable efforts to meet shipment or delivery dates specified by HPS, but such dates are estimates only. In no event shall be liable for any delay or nondelivery if caused directly or indirectly by Acts of God, fire, flood, strike or lockout or other labor dispute, accident, civil commotion, riot, war, governmental regulation or order, whether or not it later proves to be invalid, or from any other cause or causes (whether or not similar to any of the foregoing) beyond HPS's control. In no case will HPS be liable for loss of profits or any special or consequential damages on account of any delay in delivery or nondelivery whether or not excused hereunder.

SHIPPING DEFERMENT
Buyer requests for shipping deferment must be approved by HPS and are subject to price negotiation.

LIMITED WARRANTY AND LIMITATION OF LIABILITY
HPS warrants to Buyer that the products sold will be free of defects in workmanship or material for a period of one (1) year (or as otherwise specified) from the date of original shipment by HPS when stored, installed, operated or maintained in accordance with recommendations of HPS and standard industry practice and when used under proper and normal use. HPS shall in no event be responsible or liable for modifications, alterations, misapplication or repairs made to its products by Buyer or others, or for damage caused thereto by negligence, accident or improper use by Buyer or others. This warranty does not include reimbursement for the expenses of labor, transportation, removal or reinstallation of the products. This warranty shall run only to the first Buyer of a product from HPS, from HPS' Buyer, or from an original equipment manufacturer reselling HPS' product, and is non-assignable and non-transferable and shall be of no force and effect if asserted by any person other than such first Buyer.

APPLICATION: *HPS does not warrant the accuracy of and results from product or system performance recommendations resulting from any engineering analysis or study. This applies regardless of whether a charge is made for the recommendation, or if it is provided free of charge. Responsibility for selection of the proper product of application rests solely 2 Effective January 1, 2011 with the Buyer. In the event of errors or inaccuracies determined to be caused by HPS, its liability will be limited to the reperformance of any such analysis or study.*

BUYER INSPECTIONS: *Tests, inspections and acceptance of all material must be made at the factory. Buyer's inspectors are welcome at the factories and are provided with the necessary facilities for carrying out their work. Name and phone number of who should be contacted for inspection should be given to HPS no later than two weeks prior to scheduled shipment date.*

DISCLAIMER OF WARRANTY: ***THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER WRITTEN, ORAL, EXPRESSED OR IMPLIED. THERE ARE NO WARRANTIES OF MERCHANTABILITY OR FITNESS OF ANY PRODUCT FOR A PARTICULAR PURPOSE.***

EXCLUSIVE REMEDY: *Any claim by Buyer that a product is defective or non-conforming shall be deemed waived by Buyer unless submitted to HPS in writing within thirty (30) days from the date Buyer discovered, or by reasonable inspection should have discovered the alleged defect or non-conformity. Any warranty claim must be brought within one year of discovery of the alleged defect or non-conformity. Upon prompt written notice by the Buyer that a product is defective or non-conforming, HPS' liability shall be limited to repairing or replacing the product, at HPS' option.*

LIMITATION OF LIABILITY: ***IN NO EVENT AND UNDER NO CIRCUMSTANCES SHALL HPS BE LIABLE TO BUYER OR TO ANY OTHER PERSON FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL OR INCIDENTAL LOSSES OR DAMAGES, INCLUDING, WITHOUT LIMITATION, DAMAGE TO OR LOSS OF USE OF ANY PRODUCT, LOST SALES, OR PROFITS, OR DELAY OR FAILURE TO PERFORM THIS WARRANTY OBLIGATION, OR CLAIMS OF THIRD PARTIES AGAINST PURCHASER, ARISING OUT OF OR IN CONNECTION WITH THE SALE, INSTALLATION, USE OF, INABILITY TO USE, OR THE REPAIR OR REPLACEMENT OF, HPS' PRODUCTS.*** *As stated herein, the term "person" shall include without limitation, any individual proprietorship, partnership, corporation or entity.*

FREIGHT ALLOWANCE and F.O.B. POINT
All shipments are F.O.B. origin. Risk of loss and title of products shall pass to Buyer upon delivery to the designated carrier. Freight is prepaid and allowed on all HPS shipments of products with a net order value of $5,000 and above to destinations within the Continental U.S.A and Canada, with the exception of USCO brand products. Freight is prepaid and allowed on all shipments of USCO brand products with a net order value of $20,000 and above. An 8% shipping and handling charge will be added to all standard shipments under the minimum net order value. Customer expedited orders will be billed at actual freight cost plus $50.00 handling. Shipments to Alaska and Hawaii are F.O.B. Pacific Coast docks, collect beyond. Tool trailers will be F.O.B. HPS' dock – no freight allowed.
HPS reserves the right to route all qualified freight allowed shipments via least expensive surface route within the Continental United States and Canada. Buyer will assume all charges for transportation specified via more expensive means. Acceptance of a specified routing does not constitute a guarantee of ship date, transit time or arrival date. HPS will not be responsible for any cartage or storage charges at destination.

HPS' responsibility for exception-free delivery ceases when the transportation company receives shipment in good condition. Claims for loss or damage must be reported directly to the carrier. HPS's willingness to assist does not indicate liability for claim or replacement.

PARTIAL RELEASE
If an order has multiple releases specified by the Buyer, each release will be treated as individual orders, relative to freight allowance and minimum billing.

BACK ORDERS
Back orders that are the responsibility of HPS will be shipped F.O.B. factory or point of shipment with freight prepaid and allowed via the most cost effective method, providing the original order qualified for freight allowance.

MINIMUM BILLING
Standard Orders — $750 net per order. Tools — $100 net per order. Parts — $100 net per order.

ORDER ADD-ON POLICY
HPS' "Add-On" policy allows you to add items to an existing unshipped order for up to fifteen (15) days from the entry date of the original order. The minimum value for added products is $250. Addition of tools or parts must be $100.

DELIVERY SCHEDULE
Shipping dates provided by HPS are estimates only. HPS shall make every reasonable effort to meet Buyer's shipping requirements provided HPS promptly receives all necessary information from Buyer and approved drawings if required by HPS. HPS will not assume liability because of delayed shipment for any reason. HPS's responsibility ceases upon acceptance of shipment by carrier.

CANCELLATIONS
Cancellation of an order for current stock product requires a minimum of five (5) days' notice prior to actual ship date. Stock product orders shipped after cancellation notice is received, but before expiration of the five-day requirement, will be subject to all standard returned product conditions, noted below. Cancellation on non-stock products may be made only if no work has been performed or material purchased. If cancellation is requested after work is in progress, there will be a cancellation 3 Effective January 1, 2011 charge as established by HPS. Orders may not be cancelled unless HPS gives its written consent, and then only upon agreement as to applicable cancellation charges.

RETURNED PRODUCT
GENERAL CONDITIONS applying to all transactions:
1. *Product is not returnable without the written consent of HPS.*
2. *Request for permission to return product must be made in writing within one year from date of shipment, and Buyer must provide original HPS invoice number.*
3. *Product to be returned must be considered standard product by HPS.*
4. *HPS reserves the right to refuse returns of any special or made-to-order product, regardless of condition.*
5. *All returned products must be in excellent, resaleable condition and packaged in the original carton. Products will be inspected upon return; and any service or repair needed to place them in first class, saleable condition will be charged and added to the restocking charge.*
6. *A 25% restocking charge will be deducted from all credits issued on authorized returns.*
7. *Return Goods Authorization (RGA) Packing List, supplied by the factory, must accompany the return shipment.*
8. *Return freight must be prepaid. Product must be received by HPS within sixty (60) days of issuance of RGA.*
9. *Net value of the return must not be less than $250.*
10. *HPS reserves the right to deduct for any damage sustained in transit.*
11. *Unauthorized returns will be refused. Equipment returned without proper authorization from HPS will, at the sole option of HPS, be returned to the Buyer freight collect, or scrapped immediately with no issuance of credit. Unauthorized product included in a return will not be credited.*

BROKEN PACKAGE POLICY
Shipments will be made in standard package quantities or multiples thereof. HPS Customer Service will notify the Buyer of any orders that do not comply with this policy. The Buyer must authorize an adjustment to comply with standard package quantities before the order will be entered.

DROP SHIPMENT POLICY
A 10% net order value drop shipment charge will be added to all purchase orders requesting delivery to a location other than a recognized Buyer stocking warehouse, with the exception of full truckload and/or project material. This is in addition to any other charges to the net order.

QUOTATION PRICE PROTECTION
All prices shown in the price lists are subject to change without notice. All quotations on special products or modifications to catalog products are binding only if confirmed in writing by the factory for the period shown on the quotation. Price protection will be provided for a period of thirty (30) days from date of quotation from HPS.

ORDERS
All orders are taken and prices quoted only with the understanding that each order shall be subject to the acceptance of HPS upon such terms as we may specify when order is received. Prices to cover amount of any sales or excise tax which now or hereinafter may be imposed by any taxing authority upon this product or the sale or manufacture thereof.

PRODUCT SPECIFICATION
HPS reserves the right to discontinue products, modify designs, and change specifications or prices without incurring obligation.

INVOICING
All invoices are due and payable per the standard terms stated herein. In the case of an apparent discrepancy in a line item charge, Buyer is obligated to advise HPS Customer Service in writing of the nature of the claimed discrepancy within five (5) days of receipt of the invoice. This includes all requests for proof of delivery. A claim of discrepancy does not relieve Buyer of the absolute obligation to pay the remaining balance of the invoice in accordance with the standard terms of payment. Upon review, HPS will have sole discretion to resolve the discrepancy; and the Buyer expressly agrees to abide by HPS' decision. HPS will promptly advise Buyer of its decision regarding any disputed items or charges.

OSHA
HPS warrants that at time of shipment, the products will conform to the applicable occupational safety and health standards promulgated pursuant to the Federal Occupational Safety and Health Act of 1970, which are in effect on the date that HPS enters its acknowledgment of Buyer's order. The Buyer's exclusive remedy and HPS' liability for breach of this warranty is limited to replacement of the nonconforming products.

FAIR LABOR STANDARDS ACT AS AMENDED
HPS represents that any goods to be delivered hereunder will be produced in compliance with the requirements of the Fair Labor Standards Act of 1938, as amended.

NOTE
These Terms and Conditions supersede all those published and previously issued by The A.B. Chance Company, The Ohio Brass Company, Anderson Electrical Products, Inc., Fargo Manufacturing Company, Inc., Chardon Electrical Components, USCO Power Equipment Corporation, Hubbell Canada LP and Hubbell Power Systems, Inc.


Kitting —
TowerPak®



Kitting — TowerPak®

For too long, electric utility companies have dealt with the burden of obtaining supplies from different sources, leading to high costs, wasted time and inconvenience. In response to these project challenges, Hubbell Power Systems created TowerPak.

Think Inside the Box.

When you order TowerPak, you can trust that all tower hardware is reviewed before it is shipped to ensure a perfect fit. Custom developed to suit your individual needs, components are identified by phase or tower, clearly marked and efficiently packaged to make tower construction faster and more cost effective than ever before.



One Tower. One TowerPak.

TowerPak groups all of your transmission hardware together by assembly or structure for easy distribution. Packaging by assembly or by structure is a decision you and your Hubbell partner will make during your project development. Either solution will ensure clear descriptive labeling for simple inventory management in the field.

Your Way, Any Way…

Assemblies — components of one or more assemblies may be packed together in one box
or palletized.

Insulators — with rings in protective cartons, insulators are carefully packed in wooden crates and labeled appropriately. For example, 25K lb SML suspension insulators are crated and labeled with the insulator catalog number, sales order number and quantity.

Materials When, Where and How You Need Them

Each TowerPak arrives at your warehouse — or even your job site — in durable, weather-resistant crates. Inside, every part is clearly labeled for quick identification and accurate assembly.

And we absolutely guarantee on-time delivery via our expedited, freight-coordinated and trackable shipping. No surprises. No delays.

The Right Fit, Every Time

With Hubbell Power Systems, you know that each tower component is designed and manufactured to meet the highest quality standards.

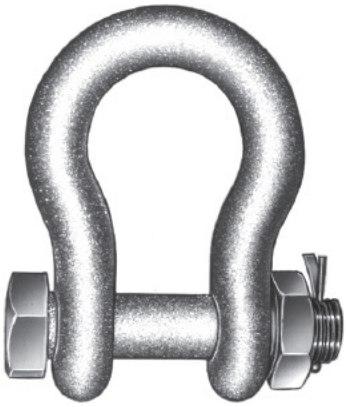
You can trust that TowerPak is the solution to simplifying inventory management on complex transmission projects. After all, it was developed by the largest and most experienced technical staff in the industry — here at Hubbell Power Systems.

For more information, contact your sales representative.



Line and Tower Hardware







strength

Line & Tower Hardware Index

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Line And Tower Hardware

Anderson™ manufactures a complete line of quality line and tower end hardware to meet all transmission line construction needs. A variety of devices are available to bundle conductors, attach conductors to insulator strings and attach insulator strings to support arms.

Most of our line and tower end hardware is manufactured from ductile iron. Ductile iron castings offer great design flexibility and freedom to utilize design improvements without expensive tooling changes. We also provide a line of forged steel tower end fittings. Steel forgings are often required to provide the necessary ultimate strength when dimensional restrictions are imposed such as with most ball fittings, shackles and links.

Ball and socket fittings are specified under an ANSI class with respect to insulators. We offer two types of ball and socket fittings: Standard fittings (rated 30,000 pounds) for ANSI 52-3 and 52-5 class insulators, and high strength fittings (rated 50,000 pounds) for ANSI 52-8 and 52-11 class insulators.

The ultimate strength rating of our line and tower end hardware indicates the load where rupture can occur. It is a fairly common industry practice to match the ultimate strength of line and tower end hardware to that of the associated insulators. It is expected that the customer will apply suitable safety factors.

Hubbell/Anderson hardware fittings are designed for electric utility power line static-load applications. They are not recommended for hoisting (up and down) load-handling applications.

For IEC and CSA forged steel hardware offerings, see Hubbell Power System's "Transmission Hardware Canadian Product Offering" Catalog.

Hardware Fittings — *Ductile Iron*

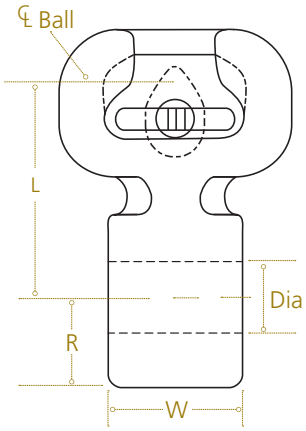
Socket Eye

DUCTILE IRON

SA

Socket eyes can be used for connecting conductor clamping devices to ball and socket type insulators.

Material: Body – *galvanized ductile iron*
Cotter Pin – *stainless steel*





Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)				Approx Wt Each lb (kg)
		W	R	L	Diameter	
SA04	18,000 (80)	½ (12.7)	13⁄16 (20.6)	2 1⁄16 (52.4)	1 1⁄16 (17.5)	1.25 (.57)
SA049	20,000 (89)	½ (12.7)	13⁄16 (20.6)	3¼ (82.6)	9⁄16 (14.3)	1.28 (.58)
SA05	20,000 (89)	5⁄8 (15.9)	13⁄16 (20.6)	2 1⁄16 (52.4)	1 1⁄16 (17.5)	1.25 (.57)
SA06	25,000 (111)	¾ (19.1)	13⁄16 (20.6)	2 1⁄16 (52.4)	1 1⁄16 (17.5)	1.30 (.59)
936032000	27,000 (120)	¾ (19.1)	1 (25.4)	3 (76.2)	13⁄16 (20.6)	2.2 (1.00)
SA07	30,000 (133)	7⁄8 (22.2)	13⁄16 (20.6)	2 1⁄16 (52.4)	1 1⁄16 (17.5)	1.35 (.61)
SA10	30,000 (133)	1 (25.4)	13⁄16 (20.6)	2 1⁄16 (52.4)	1 1⁄16 (17.5)	1.40 (.64)
SA10054	30,000 (133)	1 (25.4)	13⁄16 (20.6)	5½ (139.7)	1 1⁄16 (17.5)	1.90 (0.86)
SA11	30,000 (133)	1⅛ (28.6)	13⁄16 (20.6)	2 1⁄16 (52.4)	1 1⁄16 (17.5)	1.50 (.68)
936062000	30,000 (133)	1¼ (31.8)	1 (25.4)	3 (76.2)	1 1⁄16 (27)	2.3 (1.04)
936063002	30,000 (133)	1¼ (31.8)	1 (25.4)	3 (76.2)	1 3⁄16 (30.2)	2.3 (1.04)
SA13	30,000 (133)	1⅜ (34.9)	13⁄16 (20.6)	2 1⁄16 (52.4)	1 1⁄16 (17.5)	1.70 (.77)
SA13054	30,000 (133)	1⅜ (34.9)	13⁄16 (20.6)	5½ (139.7)	1 1⁄16 (17.5)	2.00 (0.91)
SA1550[1]	50,000 (222)	1⅝ (41.3)	1 (25.4)	3 3⁄32 (83.3)	1 1⁄16 (27)	3.00 (1.36)
SA15501[1]	30,000 (133)	1⅝ (41.3)	1 (25.4)	3 3⁄32 (83.3)	1 1⁄16 (17.5)	3.00 (1.36)
SA15502[1]	30,000 (133)	¾ (19.1)	1 (25.4)	3 3⁄32 (83.3)	1 1⁄16 (17.5)	2.75 (1.25)
SA15503[1]	36,000 (160)	1 5⁄16 (33.3)	1 (25.4)	3 3⁄32 (83.3)	13⁄16 (20.6)	2.90 (1.32)
SA16	30,000 (133)	1¾ (44.5)	13⁄16 (20.6)	2 1⁄16 (52.4)	1 1⁄16 (17.5)	1.80 (.82)
SA20	30,000 (133)	2 (50.8)	13⁄16 (20.6)	2 1⁄16 (52.4)	1 1⁄16 (17.5)	1.85 (.84)

Hardware Fittings — *Ductile Iron*

Socket Eye

Product Data (*continued*)

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)				Approx Wt Each lb (kg)
		W	R	L	Diameter	
SA22	30,000 (133)	2¼ (57.2)	13⁄16 (20.6)	2 1⁄16 (52.4)	1 1⁄16 (17.5)	1.85 (.84)
SA1013	30,000 (133)	1 (25.4)	13⁄16 (20.6)	2 1⁄16 (52.4)	13⁄16 (20.6)	1.50 (.68)
SA10.513	30,000 (133)	1 1⁄16 (27)	13⁄16 (20.6)	2 1⁄16 (52.4)	13⁄16 (20.6)	1.30 (.50)
SA1113	30,000 (133)	1⅛ (28.6)	13⁄16 (20.6)	2 1⁄16 (52.4)	13⁄16 (20.6)	1.50 (.68)
SA1313	30,000 (133)	1⅜ (34.9)	13⁄16 (20.6)	2 1⁄16 (52.4)	13⁄16 (20.6)	1.75 (.79)
SA1417	30,000 (133)	1½ (38.1)	1 (25.4)	2½ (63.5)	1 1⁄16 (27)	1.75 (.79)
SA1613	30,000 (133)	1¾ (44.5)	13⁄16 (20.6)	2 1⁄16 (52.4)	13⁄16 (20.6)	1.85 (.84)
SA16054	30,000 (133)	1¾ (44.5)	13⁄16 (20.6)	5½ (139.7)	1 1⁄16 (17.5)	2.10 (0.95)
SA2113	30,000 (133)	2⅛ (54)	13⁄16 (20.6)	2 1⁄16 (52.4)	13⁄16 (20.6)	2.00 (.91)
SA2213	30,000 (133)	2¼ (57.2)	13⁄16 (20.6)	2 1⁄16 (52.4)	13⁄16 (20.6)	2.00 (.91)
SA24	30,000 (133)	2½ (63.5)	13⁄16 (20.6)	2 1⁄16 (52.4)	1 1⁄16 (17.5)	2.34 (1.09)
SA2413	30,000 (133)	2½ (63.5)	13⁄16 (20.6)	2 1⁄16 (52.4)	13⁄16 (20.6)	2.25 (1.02)
SA2613	30,000 (133)	2¾ (69.9)	13⁄16 (20.6)	2 1⁄16 (52.4)	13⁄16 (20.6)	2.85 (1.29)
909662000(1)	50,000 (222)	1 1⁄16 (27)	1⅛ (28.6)	5½ (139.7)	1 1⁄16 (27)	5.8 (2.63)
909642000(1)	50,000 (222)	1 3⁄16 (30.2)	1⅛ (28.6)	5½ (139.7)	13⁄16 (20.6)	5.3 (2.40)
909672000(1)	50,000 (222)	1 7⁄32 (31)	1⅛ (28.6)	5½ (139.7)	1 3⁄16 (30.2)	5.6 (2.54)
909622000(1)	50,000 (222)	1 7⁄16 (36.5)	1⅛ (28.6)	5½ (139.7)	1 3⁄16 (30.2)	5.8 (2.63)
909612000(1)	50,000 (222)	1½ (38.1)	1⅛ (28.6)	5½ (139.7)	13⁄16 (20.6)	6.0 (2.72)

NOTE: For use with class 52-3 and 52-5 insulators per ANSI Spec. C-29.2-71.

(1) For use with class 52-8 and 52-11 insulators per ANSI Spec. C-29.2-71.

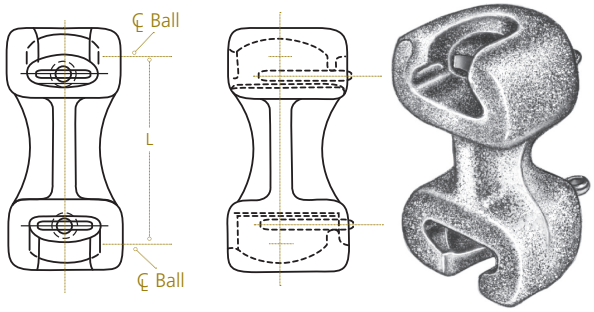
Hardware Fittings — *Ductile Iron*

Socket - Socket

DUCTILE IRON
SS

Socket-sockets are used to connect ball and socket insulators to associated hardware within an insulator string.

Material: Body – *galvanized ductile iron*
Cotter Pin – *stainless steel*



Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)	Approx Wt Each lb (kg)
		L	
SS30	30,000 (133)	3 (76.2)	2.00

NOTE: For use with class 52-3 and 52-5 insulators per ANSI Spec. C-29.2-71.

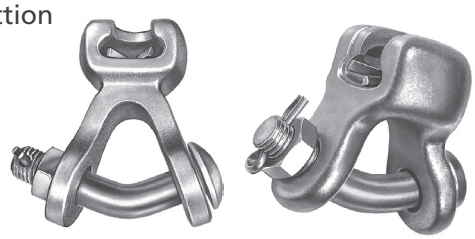
Ductile Iron Socket Y-Clevis

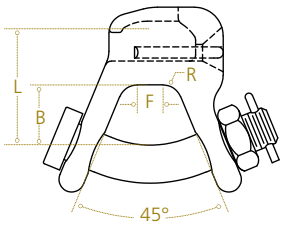
DUCTILE IRON
SYC

Socket Y-clevises are used to connect yoke plates or associated hardware to ball and socket insulators. The bent bolt in the Y-section provides an additional point of articulation within an assembly.

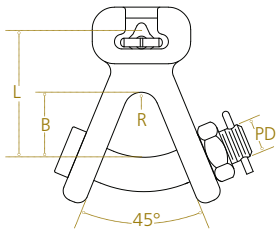
Type SYCS is a short coupling version of Type SYC that offers the same articulation advantages.

Material: Body – *galvanized ductile iron*
Hardware – *galvanized steel*
Cotter Pin – *stainless steel*

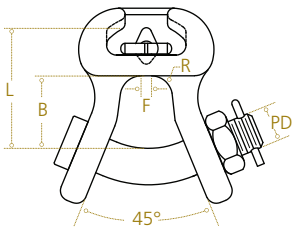




SYC3090



SYC30



SYC50 & 942773001

Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)					Approx Wt Each lb (kg)
		L	B	R	F	PD	
SYC30	30,000 (133)	2¾ (69.9)	1 9/16 (39.7)	7/16 (11.1)	—	¾ (19.2)	3.0 (1.36)
SYCS3090	30,000 (133)	2 9/32 (57.9)	1 3/16 (30.2)	⅜ (9.5)	½ (12.7)	¾ (19.2)	2.5 (1.13)
SYC50(1)	50,000 (222)	2⅞ (73)	1⅝ (41.3)	½ (12.7)	¼ (6.4)	⅞ (22.2)	5.0 (2.27)
942773001(1)	50,000 (222)	2 15/16 (74.6)	1⅝ (41.3)	⅜ (9.5)	9/16 (14.3)	⅞ (22.2)	5.0 (2.27)

NOTE: For use with class 52-3 and 52-5 insulators per ANSI Spec. C 29.2-71.

(1) For use with class 52-8 and 52-11 insulators per ANSI Spec. C 29.2-71. Shield nut can be supplied by adding suffix "SN" to catalog number. Example: SYC30SN.

Hardware Fittings — *Ductile Iron*

Socket Clevis

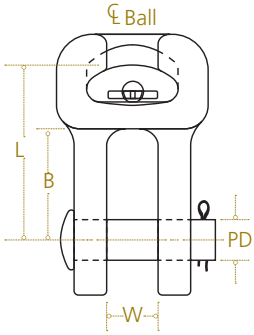
DUCTILE IRON

SC

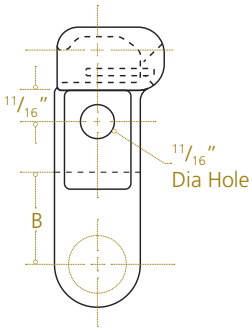
Socket clevises are used primarily for connecting associated hardware to ball and socket type insulators.

Material: Body – *galvanized ductile iron*
Clevis Pin – *galvanized steel*
Cotter Pin – *stainless steel*

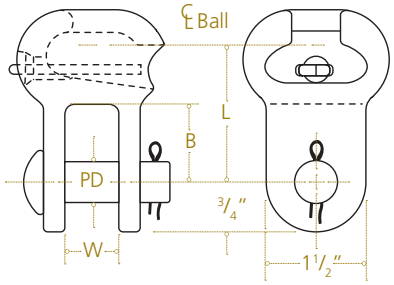




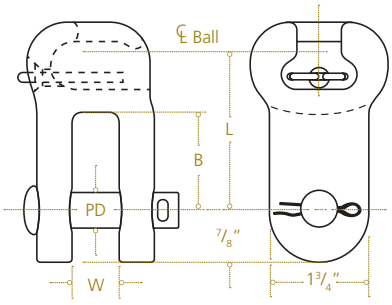
Type SC



Type SC30AHM



Type 115452000



Type 876032000

Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)				Approx Wt Each lb (kg)
		W	L	B	PD	
876032000	30,000 (133)	13⁄16 (20.6)	2 5⁄8 (66.7)	1 5⁄8 (41.3)	5⁄8 (15.9)	2.7 (1.22)
SC30	30,000 (133)	7⁄8 (22.2)	2 5⁄8 (66.7)	1 11⁄16 (42.9)	5⁄8 (15.9)	2.0 (.91)
SC30AHM	30,000 (133)	7⁄8 (22.2)	4 1⁄2 (114.3)	1 15⁄16 (49.2)	5⁄8 (15.9)	3.5 (1.58)
SC301	30,000 (133)	1 1⁄8 (28.6)	3 7⁄8 (98.4)	2 7⁄8 (72)	5⁄8 (15.9)	3.0 (1.36)
115452000(1)	18,000 (80)	13⁄16 (20.6)	2 1⁄8 (54)	1 3⁄16 (30.2)	5⁄8 (15.9)	1.35 (.61)
SC501(2)	50,000 (222)	1 1⁄8 (28.6)	3 3⁄32 (85.3)	2 1⁄16 (52.4)	7⁄8 (22.2)	4.6 (2.09)

NOTE: For use with class 52-3 and 52-5 insulators per ANSI Spec. C-29.2-71. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

(1) For use with class 52-3 insulators only per ANSI Spec. C-29.2-71.

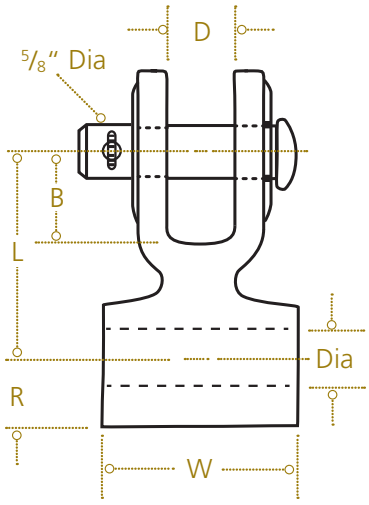
(2) For use with class 52-8 and 52-11 insulators per ANSI Spec. C-29.2-71

Hardware Fittings — *Ductile Iron*

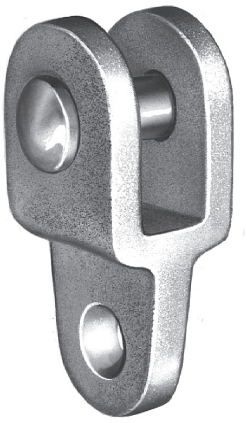
Clevis Eye

Clevis eyes are used to connect conductor clamping devices to clevis tongue insulators.

Material: Body – *galvanized ductile iron*
Clevis Pin – *galvanized steel*
Cotter Pin – *stainless steel*



DUCTILE IRON
CA



Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)						Approx Wt Each lb (kg)
		R	W	B	D	L	Diameter	
CA04	18,000 (80)	13/16 (20.6)	1/2 (12.7)	1 1/16 (27.1)	7/8 (22.2)	2 1/2 (63.5)	11/16 (17.5)	1.6 (.73)
CA05	20,000 (89)	13/16 (20.6)	5/8 (15.9)	1 1/16 (27.1)	7/8 (22.2)	2 1/2 (63.5)	11/16 (17.5)	1.6 (.73)
CA05033	30,000 (133)	15/16 (23.8)	5/8 (15.9)	1 3/4 (44.5)	7/8 (22.2)	3 3/8 (85.7)	11/16 (17.5)	2.6 (1.18)
CA06	25,000 (111)	13/16 (20.6)	3/4 (19.1)	1 1/16 (27.1)	7/8 (22.2)	2 1/2 (63.5)	11/16 (17.5)	1.7 (.77)
CA101	25,000 (111)	13/16 (20.6)	1 (25.4)	1 1/16 (27.1)	7/8 (22.2)	2 1/2 (63.5)	11/16 (17.5)	1.7 (.77)
CA11	25,000 (111)	13/16 (20.6)	1 1/8 (28.6)	1 1/16 (27.1)	7/8 (22.2)	2 1/2 (63.5)	11/16 (17.5)	1.7 (.77)
CA13	25,000 (111)	13/16 (20.6)	1 3/8 (34.9)	1 1/16 (27.1)	7/8 (22.2)	2 1/2 (63.5)	11/16 (17.5)	1.8 (.82)
CA16	25,000 (111)	13/16 (20.6)	1 3/4 (44.5)	1 1/16 (27.1)	7/8 (22.2)	2 1/2 (63.5)	11/16 (17.5)	2.0 (.91)
CA22	25,000 (111)	13/16 (20.6)	2 1/4 (57.2)	1 1/16 (27.1)	7/8 (22.2)	2 1/2 (63.5)	11/16 (17.5)	2.3 (1.04)
CA1013	25,000 (111)	13/16 (20.6)	1 (25.4)	1 1/16 (227.1)	7/8 (22.2)	2 1/2 (63.5)	13/16 (20.6)	2.0 (.91)
CA1313	25,000 (111)	13/16 (20.6)	1 3/8 (34.9)	1 1/16 (227.1)	7/8 (22.2)	2 1/2 (63.5)	13/16 (20.6)	2.0 (.91)
CA1517033(1)	30,000 (133)	1 1/32 (26.2)	1 5/8 (41.3)	1 3/4 (44.5)	13/16 (20.6)	3 3/8 (85.7)	1 1/16 (27.1)	2.3 (1.04)

NOTE: Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

(1) Furnished with ¾" diameter clevis pin.

Hardware Fittings — *Ductile Iron*

Clevis Eye

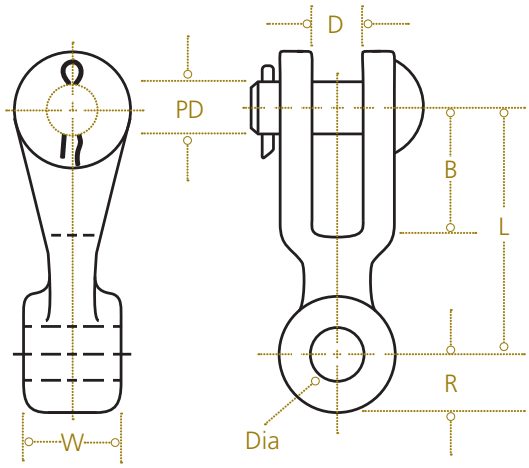
DUCTILE IRON

CE

Type CE clevis eyes are used to connect quadrant type deadends to clevis tongue insulators or yoke plates. The eye of type CE is 90° from type CA.

Material: Body – *galvanized ductile iron*
Clevis Pin – *galvanized steel*
Cotter Pin – *stainless steel*





Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)							Approx Weight Each lb (kg)
		D	W	L	B	R	PD	Diameter	
CE02504	20,000 (89)	⅞ (22.2)	½ (12.7)	2⅝ (66.7)	1¼ (31.8)	13⁄16 (20.6)	⅝ (15.9)	11⁄16 (17.5)	1.7 (.77)
CE02506	25,000 (111)	⅞ (22.2)	¾ (19.1)	2⅝ (66.7)	1¼ (31.8)	13⁄16 (20.6)	⅝ (15.9)	11⁄16 (17.5)	1.7 (.77)
CE02513	25,000 (111)	⅞ (22.2)	1⅜ (34.9)	2⅝ (66.7)	1¼ (31.8)	13⁄16 (20.6)	⅝ (15.9)	11⁄16 (17.5)	2.2 (1.00)
CE025504	18,000 (80)	13⁄16 (20.6)	½ (12.7)	2 11⁄16 (68.3)	1 1⁄16 (27)	⅞ (22.2)	⅝ (15.9)	11⁄16 (17.5)	1.7 (.77)
CE03305	30,000 (133)	⅞ (22.2)	⅝ (15.9)	3⅜ (85.7)	1 9⁄16 (39.7)	⅞ (22.2)	⅝ (15.9)	11⁄16 (17.5)	1.8 (.82)
CE03404	20,000 (89)	⅞ (22.2)	½ (12.7)	3½ (88.9)	2½ (63.5)	1 (25.4)	⅝ (15.9)	13⁄16 (20.6)	1.8 (.82)
CE0340611	36,000 (160)	1 (25.4)	¾ (19.1)	3½ (88.9)	1½ (38.1)	1 (25.4)	¾ (19.1)	11⁄16 (17.5)	2.2 (1.00)
CE0340615	36,000 (160)	1 (25.4)	¾ (19.1)	3½ (88.9)	1½ (38.1)	1 (25.4)	¾ (19.1)	15⁄16 (23.8)	2.1 (.95)
CE03410	30,000 (133)	⅞ (22.2)	1 (25.4)	3½ (88.9)	2½ (63.5)	1 (25.4)	⅝ (15.9)	13⁄16 (20.6)	2.0 (.91)

Hardware Fittings — *Ductile Iron*

Clevis Eye

Product Data (*continued*)

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)							Approx Wt Each lb (kg)
		D	W	L	B	R	PD	Diameter	
CE03413	30,000 (133)	⅞ (22.2)	1⅜ (34.9)	3½ (88.9)	2½ (63.5)	1 (25.4)	⅝ (15.9)	13⁄16 (20.6)	2.5 (1.13)
CE03415	50,000 (222)	⅞ (22.2)	1⅝ (41.3)	3½ (88.9)	2½ (63.5)	1 (25.4)	¾ (19.1)	1 1⁄16 (27)	2.9 (1.32)
CE03616	25,000 (111)	⅞ (22.2)	1¾ (44.5)	3¾ (95.3)	2¾ (69.9)	1 (25.4)	⅝ (15.9)	11⁄16 (17.5)	2.7 (1.23)
879002000	36,000 (160)	⅞ (22.2)	¾ (19.1)	5½ (139.7)	2⅛ (54)	1¼ (31.8)	¾ (19.1)	13⁄16 (20.6)	3.9 (1.77)
CE054106	50,000 (222)	⅞ (22.2)	1 1⁄16 (27)	5½ (139.7)	2⅛ (54)	1 (25.4)	¾ (19.1)	13⁄16 (20.6)	3.0 (1.36)
CE05410	40,000 (178)	1 (25.4)	1 (25.4)	5½ (139.7)	2½ (63.5)	1 (25.4)	¾ (19.1)	13⁄16 (20.6)	3.2 (1.45)
CE0541160	60,000 (267)	⅞ (22.2)	1⅛ (28.6)	5½ (139.7)	2⅛ (54)	1⅛ (28.6)	¾ (19.1)	13⁄16 (20.6)	3.7 (1.68)
CE054125	30,000 (133)	⅞ (22.2)	1 5⁄16 (33.3)	5½ (139.7)	2⅛ (54)	1 (25.4)	⅝ (15.9)	13⁄16 (20.6)	3.5 (1.59)
CE05414	50,000 (222)	⅞ (22.2)	1½ (38.1)	5½ (139.7)	2⅛ (54)	1 (25.4)	¾ (19.1)	1 3⁄16 (30.2)	3.5 (1.59)
CE05415	50,000 (222)	⅞ (22.2)	1⅝ (41.3)	5½ (139.7)	2⅛ (54)	1 (25.4)	¾ (19.1)	1 1⁄16 (27)	3.5 (1.59)
CE0541660	60,000 (267)	⅞ (22.2)	1¾ (44.5)	5½ (139.7)	2⅛ (54)	1 (25.4)	⅞ (22.2)	13⁄16 (20.6)	3.7 (1.68)
CE05420	50,000 (222)	⅞ (22.2)	2 (50.8)	5½ (139.7)	2⅛ (54)	1 (25.4)	¾ (19.1)	13⁄16 (20.6)	3.7 (1.68)

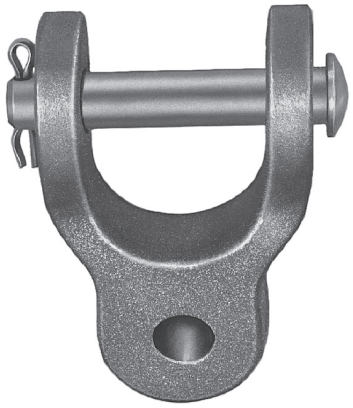
NOTE: Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

Hardware Fittings — *Ductile Iron*

Clevis Eye

Wide clevis eyes are used to attach suspension clamps to associated hardware in a single conductor VEE string assembly.

Material: Body – *galvanized ductile iron*
Hardware – *galvanized steel*



DUCTILE IRON
CEW

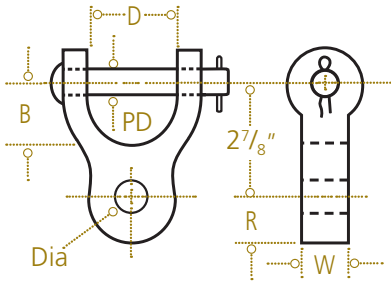


Figure 1

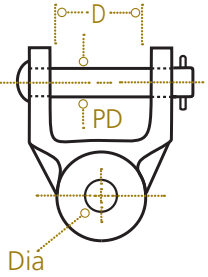


Figure 2

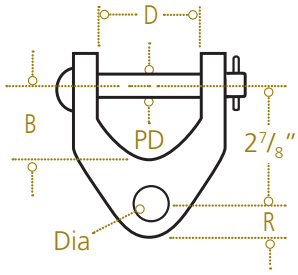


Figure 3

Product Data

Catalog Number	Figure Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)						Approx Wt Each lb (kg)
			W	D	B	PD	R	Diameter	
CEW1030	1	30,000 (133)	1 (25.4)	2¼ (57.2)	1 15/16 (49.2)	5/8 (15.9)	1 (25.4)	11/16 (17.5)	2.6 (1.18)
CEW13530	1	30,000 (133)	1 7/16 (36.5)	2 (50.8)	1 13/16 (46)	5/8 (15.9)	1 (25.4)	11/16 (17.5)	2.6 (1.18)
CEW1630	1	30,000 (133)	1¾ (44.5)	2 (50.8)	1 13/16 (46)	5/8 (15.9)	1 (25.4)	11/16 (17.5)	2.8 (1.27)
CEW2230	1	30,000 (133)	2 ¼ (57.2)	2 (50.8)	1 13/16 (46)	5/8 (15.9)	1 (25.4)	11/16 (17.5)	3.2 (1.45)
CEW223013	1	30,000 (133)	2¼ (57.2)	2 (50.8)	1 13/16 (46)	5/8 (15.9)	1 (25.4)	13/16 (20.6)	3.2 (1.45)
CEW2330	2	30,000 (133)	2⅜ (60.3)	2¼ (57.2)	1 7/16 (36.5)	5/8 (15.9)	13/16 (20.6)	11/16 (17.5)	3.5 (1.59)

NOTE: Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

Hardware Fittings — *Ductile Iron*

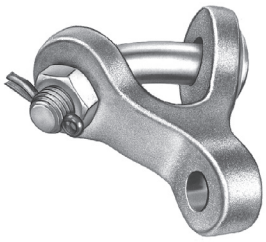
Y-Clevis Eye

DUCTILE IRON

YCS

Y-clevis eyes are primarily used to attach clamping devices to yoke plates or other associated hardware in a bundle conductor assembly. The bent bolt in the Y-section provides an additional point of articulation within an assembly.

Material: Body – *galvanized ductile iron*
Hardware – *galvanized steel*
Cotter Pin – *stainless steel*



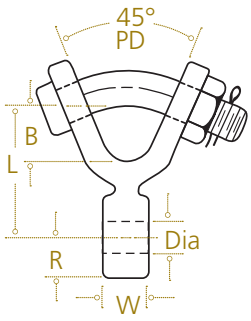


Figure 1 YCS

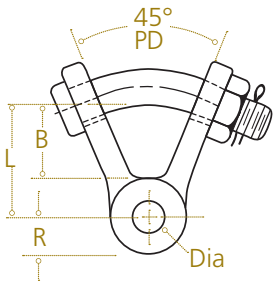


Figure 2 YCS90

Product Data

Catalog Number	Figure Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)						Approx Wt Each lb (kg)
			B	L	W	R	PD	Diameter	
YCS04	1	19,000 (85)	1⅜ (34.9)	2 13⁄16 (71.4)	½ (12.7)	13⁄16 (20.6)	¾ (19.1)	11⁄16 (17.5)	1.75 (.79)
YCS0490	2	19,000 (85)	1⅜ (41.3)	2 7⁄16 (62)	½ (12.7)	13⁄16 (20.6)	¾ (19.1)	11⁄16 (17.5)	1.75 (.79)
YCS04034	1	19,000 (85)	1¾ (44.5)	3½ (88.9)	½ (12.7)	13⁄16 (20.6)	¾ (19.1)	11⁄16 (17.5)	2.7 (1.22)
854502000(1)	1	30,000 (133)	1½ (38.1)	3¾ (95.3)	⅝ (15.9)	25⁄32 (19.8)	¾ (19.1)	11⁄16 (17.5)	2.0 (.91)
854512000(1)	2	30,000 (133)	1½ (38.1)	3¾ (95.3)	⅝ (15.9)	25⁄32 (19.8)	¾ (19.1)	11⁄16 (17.5)	2.0 (.91)
YCS05	1	20,000 (89)	1⅜ (34.9)	2 13⁄16 (71.4)	⅝ (15.9)	13⁄16 (20.6)	¾ (19.1)	11⁄16 (17.5)	1.85 (.84)
YCS0590	2	20,000 (89)	1⅜ (41.3)	2 7⁄16 (62)	⅝ (15.9)	13⁄16 (20.6)	¾ (19.1)	11⁄16 (17.5)	1.85 (.84)
YCS059030	2	30,000 (133)	1⅜ (41.3)	2 7⁄16 (62)	⅝ (15.9)	⅞ (22.2)	¾ (19.1)	11⁄16 (17.5)	1.85 (.84)
YCS06	1	25,000 (111)	1⅜ (34.9)	2 13⁄16 (71.4)	¾ (19.1)	13⁄16 (20.6)	¾ (19.1)	11⁄16 (17.5)	1.90 (.86)
YCS0690	2	25,000 (111)	1⅜ (41.3)	2 7⁄16 (62)	¾ (19.1)	13⁄16 (20.6)	¾ (19.1)	11⁄16 (17.5)	1.90 (.86)
YCS069040	2	40,000 (178)	2 (50.8)	3 5⁄16 (84.1)	¾ (19.1)	1 (25.4)	⅞ (22.2)	11⁄16 (17.5)	3.4 (1.54)
YCS07	1	30,000 (133)	1⅜ (34.9)	2 13⁄16 (71.4)	⅞ (22.2)	13⁄16 (20.6)	¾ (19.1)	11⁄16 (17.5)	1.90 (.86)
YCS10	1	30,000 (133)	1⅜ (34.9)	2 13⁄16 (71.4)	1 (25.4)	13⁄16 (20.6)	¾ (19.1)	11⁄16 (17.5)	1.95 (.88)
YCS1090	2	30,000 (133)	1⅜ (41.3)	2 7⁄16 (62)	1 (25.4)	13⁄16 (20.6)	¾ (19.1)	11⁄16 (17.5)	1.95 (.88)
YCS10590	2	30,000 (133)	1⅜ (41.3)	2 7⁄16 (62)	1 1⁄16 (27.1)	13⁄16 (20.6)	¾ (19.1)	11⁄16 (17.5)	2.00 (.91)

(1) Forged Steel Body

Y-Clevis Eye

Product Data (*continued*)

Catalog Number	Figure Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)						Approx Wt Each lb (kg)
			B	L	W	R	PD	Diameter	
YCS1059013	2	30,000 (133)	1⅝ (41.3)	2 7/16 (62)	1 1/16 (27.1)	13/16 (20.6)	¾ (19.1)	13/16 (20.6)	2.00 (.91)
YCS11	1	30,000 (133)	1⅜ (34.9)	2 13/16 (71.4)	1⅛ (28.6)	13/16 (20.6)	¾ (19.1)	11/16 (17.5)	2.00 (.91)
YCS119045	2	45,000 (200)	1 1/16 (27)	2 9/16 (65.1)	1⅛ (28.6)	29/32 (23)	⅞ (22.2)	13/16 (20.6)	2.50 (1.13)
YCS1290	2	30,000 (133)	1⅝ (41.3)	2 7/16 (62)	1¼ (31.8)	13/16 (20.6)	¾ (19.1)	11/16 (17.5)	2.50 (1.13)
YCS129040	2	40,000 (178)	1 9/16 (39.7)	2⅜ (60.3)	1¼ (31.8)	13/16 (20.6)	⅞ (22.2)	13/16 (20.6)	2.50 (1.13)
YCS1390	2	30,000 (133)	1⅝ (41.3)	2 7/16 (62)	1⅜ (34.9)	13/16 (20.6)	¾ (19.1)	11/16 (17.5)	2.25 (1.02)
YCS1690	2	30,000 (133)	1⅝ (41.3)	2 7/16 (62)	1¾ (44.5)	13/16 (20.6)	¾ (19.1)	11/16 (17.5)	2.30 (1.04)
YCS169040	2	40,000 (178)	1 9/16 (39.7)	2⅜ (60.3)	1¾ (44.5)	13/16 (20.6)	⅞ (22.2)	13/16 (20.6)	2.50 (1.13)
YCS2090	2	30,000 (133)	1⅝ (41.3)	2 7/16 (62)	2 (50.8)	13/16 (20.6)	¾ (19.1)	11/16 (17.5)	2.75 (1.25)
YCS209040	2	40,000 (178)	1 9/16 (39.7)	2⅜ (60.3)	2 (50.8)	13/16 (20.6)	⅞ (22.2)	13/16 (20.6)	3.00 (1.36)
YCS219013	2	30,000 (133)	1⅝ (41.3)	2 7/16 (62)	2⅛ (54)	13/16 (20.6)	¾ (19.1)	13/16 (20.6)	3.00 (1.36)
YCS2290	2	30,000 (133)	1⅝ (41.3)	2 7/16 (62)	2¼ (57.2)	13/16 (20.6)	¾ (19.1)	11/16 (17.5)	2.75 (1.25)
YCS2490	2	30,000 (133)	1⅝ (41.3)	2 7/16 (62)	2½ (63.5)	13/16 (20.6)	¾ (19.1)	11/16 (17.5	3.00 (1.36)
YCS269040	2	40,000 (178)	1 9/16 (39.7)	2⅜ (60.3)	2¾ (69.9)	13/16 (20.6)	⅞ (22.2)	13/16 (20.6)	3.45 (1.47)
YCS269050	2	50,000 (222)	1⅝ (41.3)	2 9/16 (65)	2¾ (69.9)	1 (25.4)	⅞ (22.2)	1 1/16 (27.0)	4.10 (1.79)

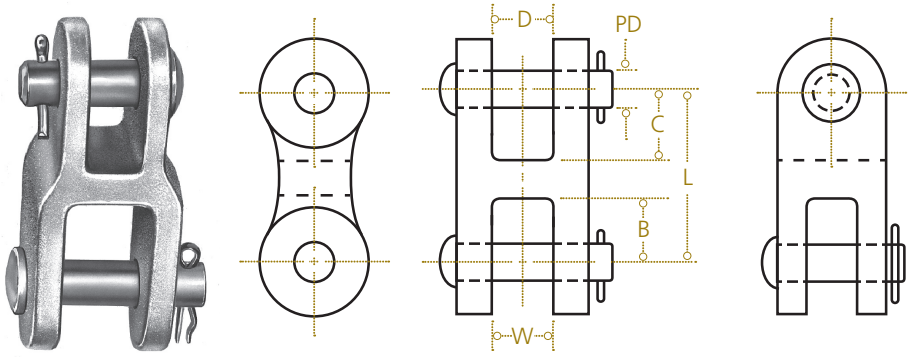
Hardware Fittings — *Ductile Iron*

Clevis Clevis

DUCTILE IRON
CCC

Clevis clevises are used to attach clevis tongue insulators to various associated hardware within an insulator string.

Material: Body – *galvanized ductile iron*
Clevis Pin – *galvanized steel*
Cotter Pin – *stainless steel*



Type CCC **Type CCC90**

Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)						Approx Weight Each lb (kg)
		L	B	C	W	D	PD	
CCC25	25,000 (111)	3 (76.2)	1 1/16 (27)	1 1/2 (38.1)	11/16 (17.5)	1 3/16 (30.2)	5/8 (15.9)	2.5 (1.13)
CCC30	30,000 (133)	4 (101.6)	1 3/4 (44.5)	1 3/4 (44.5)	7/8 (22.2)	7/8 (22.2)	5/8 (15.9)	2.5 (1.13)
CCC30115	30,000 (133)	4 (101.6)	2 (50.8)	1 1/2 (38.1)	1 3/16 (30.2)	7/8 (22.2)	5/8 (15.9)	3.0 (1.36)
CCC3090	30,000 (133)	3 (76.2)	1 3/8 (34.9)	1 3/8 (34.9)	7/8 (22.2)	7/8 (22.2)	5/8 (15.9)	2.5 (1.13)
CCC309055	30,000 (133)	5 1/2 (139.7)	1 3/4 (44.5)	1 3/4 (44.5)	15/16 (23.8)	15/16 (23.8)	5/8 (15.9)	5.7 (2.59)
CCC40	40,000 (178)	4 (101.6)	1 3/4 (44.5)	1 3/4 (44.5)	7/8 (22.2)	7/8 (22.2)	3/4 (19.1)	3.2 (1.45)
CCC4090	40,000 (178)	3 1/2 (88.9)	1 1/2 (38.1)	1 1/2 (38.1)	7/8 (22.2)	7/8 (22.2)	3/4 (19.1)	3.2 (1.45)
CCC50	50,000 (222)	4 1/2 (114.3)	2 (50.8)	2 (50.8)	1 (25.4)	1 (25.4)	3/4 (19.1)	4.0 (1.81)
CCC5090	50,000 (222)	4 1/2 (114.3)	2 (50.8)	2 (50.8)	1 (25.4)	1 (25.4)	3/4 (19.1)	4.0 (1.81)
CCC80BNK	80,000 (356)	5 1/8 (130.2)	2 1/4 (57.2)	2 1/4 (57.2)	1 5/8 (41.3)	1 1/4 (31.8)	(1)	6.0 (2.72)

NOTE: Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

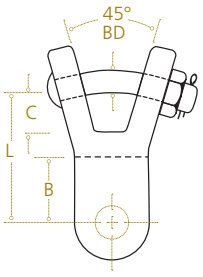
(1) Furnished with bolt, nut and cotter pin; 1.0 in diameter bolt at "D" opening, 1 1/8 in diameter bolt at "W" opening.

Hardware Fittings — *Ductile Iron*

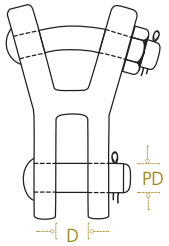
Y-Clevis Clevis

Y-clevis clevises are used to attach clevis tongue insulators to various associated hardware within an insulator string. The bent bolt in the Y-clevis section provides an additional point of articulation within an assembly.

Material: Body – *galvanized ductile iron*
Hardware – *galvanized steel*



Type YCC90



Type YCC

DUCTILE IRON

YCC



Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)						Approx Wt Each lb (kg)
		D	L	B	C	PD	BD	
YCC30	30,000 (133)	⅞ (22.2)	3¼ (82.6)	1⅜ (34.9)	1⅜ (34.9)	⅝ (15.9)	¾ (19.1)	2.5 (1.13)
YCC3090	30,000 (133)	⅞ (22.2)	3¼ (82.6)	1⅜ (34.9)	1½ (38.1)	⅝ (15.9)	¾ (19.1)	2.5 (1.13)

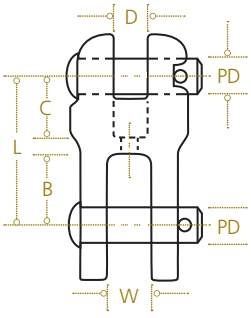
Corona Free Clevis

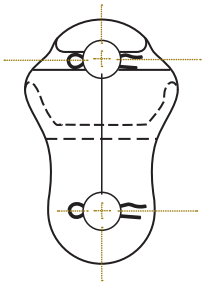
Corona free clevis clevises are used at EHV levels to attach clevis tongue insulators to various associated hardware within an insulator string.

DUCTILE IRON

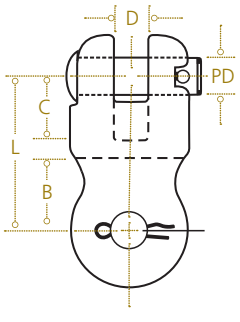
CFCC

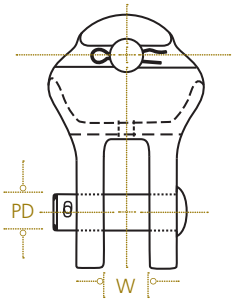
Material: Body – *galvanized ductile iron*
Clevis Pin – *galvanized steel*
Cotter Pin – *stainless steel*





Type CFCC





Type CFCC90



Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)						Approx Wt Each lb (kg)
		L	B	C	W	D	PD	
CFCC30	30,000 (133)	3⅛ (79.4)	1 19/32 (40.5)	1 7/32 (31)	⅞ (22.2)	1 1/16 (17.5)	⅝ (15.9)	3.00 (1.36)
CFCC3090	30,000 (133)	3⅛ (79.4)	1 19/32 (40.5)	1 7/32 (31)	⅞ (22.2)	1 1/16 (17.5)	⅝ (15.9)	3.00 (1.36)
CFCC40	40,000 (178)	3¼ (82.6)	1¾ (44.5)	1 3/16 (30.2)	⅞ (22.2)	1 5/16 (23.8)	¾ (19.1)	4.75 (2.15)
CFCC4090	40,000 (178)	3¼ (82.6)	1¾ (44.5)	1 3/16 (30.2)	⅞ (22.2)	1 5/16 (23.8)	¾ (19.1)	4.75 (2.15)

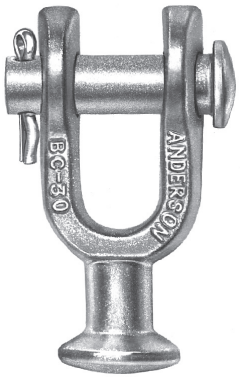
Hardware Fittings — *Forged Steel*

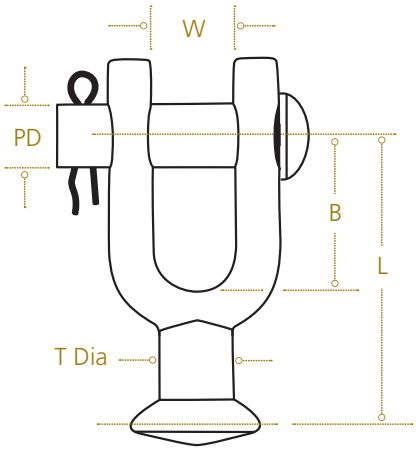
Ball Clevis

FORGED STEEL
BC

Ball clevises are used to attach ball and socket insulators to other associated tower hardware.

Material: Body – *galvanized steel*
Clevis Pin – *galvanized steel*
Cotter Pin – *stainless steel*





Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)					Approx Wt Each lb (kg)
		L	B	W	PD	T Diameter	
BC30	30,000 (133)	2⅞ (73)	1 9/16 (39.7)	15/16 (23.8)	⅝ (15.9)	23/32 (18.3)	.95 (.43)
BC50[1]	50,000 (222)	4 5/16 (109.5)	1 15/16 (49.2)	15/16 (23.8)	⅞ (22.2)	57/64 (22.6)	2.3 (1.04)
704882000	30,000 (133)	3 15/16 (100)	2½ (63.5)	13/16 (20.6)	⅝ (15.9)	23/32 (18.3)	1.24 (.56)
704883003[2]	30,000 (133)	3 15/16 (100)	2½ (63.5)	13/16 (20.6)	⅝ (15.9)	23/32 (18.3)	1.34 (.61)

NOTE: For use with class 52-3 and 52-5 insulators per ANSI Spec. C-29.2-71. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

(1) For use with class 52-8 and 52-11 insulators per ANSI Spec. C-29.2-71.

(2) This item furnished with bolt, nut and cotter key.

Hardware Fittings — *Forged Steel*

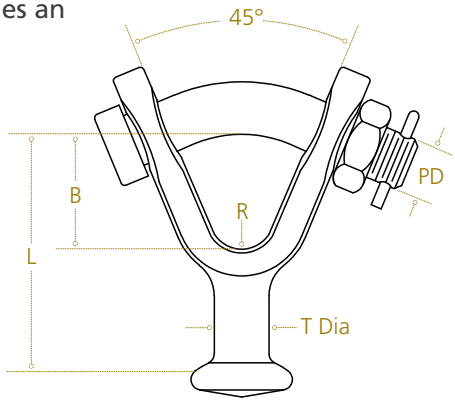
Ball Y-Clevis

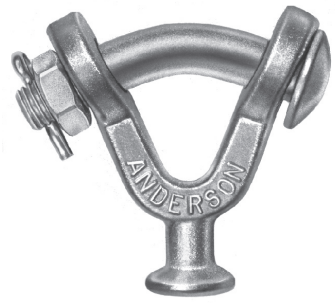
FORGED STEEL

YBC

Ball Y-clevises are used to attach ball and socket insulators to other associated hardware. The bent bolt in the Y-clevis section provides an additional point of articulation.

Material: Body – *galvanized steel*
Clevis Pin – *galvanized steel*
Cotter Pin – *stainless steel*





Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)					Approx Wt Each lb (kg)
		L	B	R	PD	T Diameter	
YBC30	30,000 (133)	3 3/32 (78.5)	1 1/2 (35.1)	0.406 (13.5)	3/4 (19.1)	23/32 (18.3)	1.90 (.86)
YBC50(1)	50,000 (222)	3 15/16 (100.2)	1 13/16 (46)	0.531 (10.3)	7/8 (22.2)	57/64 (22.6)	2.80 (1.27)

NOTE: For use with class 52-3 and 52-5 insulators per ANSI Spec. C-29.2-71.

(1) For use with class 52-8 and 52-11 insulators per ANSI Spec. C-29.2-71.

Hardware Fittings — *Forged Steel*

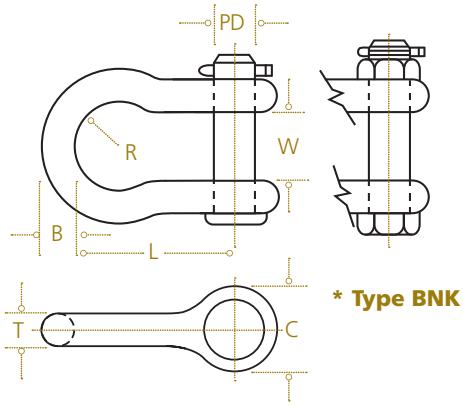
Anchor Shackle

FORGED STEEL

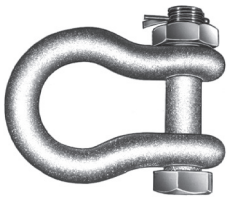
AS

Anchor shackles are used to attach hardware to the tower pad. Back to back anchor shackles are commonly used at the tower attachment point to orient the plane of the tower plate and the balance of the insulator hardware.

Material: Body – *galvanized steel*
Hardware – *galvanized steel*
Cotter Pin – *stainless steel*



*** Type BNK**



Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)							Approx Wt Each lb (kg)
		L	B	W	C	T	R	PD	
AS25	30,000 (133)	2⅜ (60.3)	⅝ (15.9)	⅞ (22.2)	1⅜ (34.9)	½ (12.7)	11/16 (17.56)	⅝ (15.9)	.74 (.34)
AS25BNK	30,000 (133)	2⅜ (60.3)	⅝ (15.9)	⅞ (22.2)	1⅜ (34.9)	½ (12.7)	11/16 (17.5)	⅝ (15.9)	.86 (.39)
AS25L	30,000 (133)	2 25/32 (70.6)	⅝ (15.9)	⅞ (22.2)	1⅜ (34.9)	½ (12.7)	21/32 (16.7)	⅝ (15.9)	1.00 (.45)
AS25LBNK	30,000 (133)	2 25/32 (70.6)	⅝ (15.9)	⅞ (22.2)	1⅜ (34.9)	½ (12.7)	21/32 (16.7)	⅝ (15.9)	1.12 (.51)
AS25WBNK	30,000 (133)	3 (76.2)	⅝ (15.9)	1¾ (44.5)	1 11/16 (42.9)	⅝ (15.9)	1 (25.4)	⅝ (15.9)	1.65 (.75)
AS35	35,000 (156)	2 25/32 (70.6)	11/16 (17.5)	1 1/16 (27)	1 11/16 (42.9)	⅝ (15.9)	¾ (19.1)	¾ (19.1)	1.47 (.67)
AS35BNK	40,000 (178)	2 25/32 (70.6)	11/16 (17.5)	1 1/16 (27)	1 11/16 (42.9)	⅝ (15.9)	¾ (19.1)	¾ (19.1)	1.66 (.75)
AS50	50,000 (222)	3½ (88.9)	⅞ (22.2)	⅞ (22.2)	1⅞ (47.6)	¾ (19.1)	¾ (19.1)	¾ (19.1)	2.25 (1.02)
AS50BNK	60,000 (267)	3½ (88.9)	⅞ (22.2)	⅞ (22.2)	1⅞ (47.6)	¾ (19.1)	¾ (19.1	¾ (19.1)	2.44 (1.11)
970303001	60,000 (267)	5 (127)	⅝ (15.9)	1⅛ (28.6)	1⅞ (47.6)	¾ (19.1)	9/16 (14.3)	¾ (19.1)	2.4 (1.10)
970303002[1]	60,000 (267)	5 (127)	⅝ (15.9)	1⅛ (28.6)	1⅞ (47.6)	¾ (19.1)	9/16 (14.3)	¾ (19.1)	2.5 (1.13)
AS50W	50,000 (222)	3½ (88.9)	⅞ (22.2)	1¼ (31.8)	1 15/16 (49.2)	¾ (19.1)	1 (25.4)	⅞ (22.2)	2.25 (1.02)
AS50WBNK	60,000 (267)	3½ (88.9)	⅞ (22.2)	1¼ (31.8)	1 15/16 (49.2)	¾ (19.1)	1 (25.4)	⅞ (22.2)	2.75 (1.25)
AS50WLBNK	60,000 (267)	5 (127)	¾ (19.1)	1.31 (33.3)	1.87 (47.5)	¾ (19.1)	1 (25.4)	7/8 (22.2)	3.0 (1.36)
AS60BNK	80,000 (356)	3¾ (95.3)	⅞ (22.2)	1 7/16 (36.5)	2⅛ (54)	⅞ (22.2)	1⅛ (28.6)	1 (25.4)	4.31 (1.96)
AS60875BNK	72,000 (320)	3¾ (95.3)	⅞ (22.2)	1 7/16 (36.5)	2⅛ (54)	⅞ (22.2)	1⅛ (28.6)	⅞ (22.2)	4.10 (1.86)
974153001[1]	120,000 (534)	6 (152.4)	1 (25.4)	1½ (38.1)	2⅜ (60.3)	1 (25.4)	1 1/16 (27)	1⅛ (28.6)	6.20 (2.81)

Product Data (*continued*)

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)							Approx Wt Each lb (kg)
		L	B	W	C	T	R	PD	
976743001[1]	100,000 (445)	4 5/16 (109.5)	1 (25.4)	1 11/16 (42.9)	2 3/8 (60.3)	1 (25.4)	1 11/32 (34.1)	1 1/8 (28.6)	5.90 (2.69)
946693001[1]	100,000 (445)	4 5/16 (109.5)	1 (25.4)	1 3/16 (30.2)	2 3/8 (60.3)	1 (25.4)	1 11/32 (34.1)	1 1/8 (28.6)	5.70 (2.59)
AS135BNK	150,000 (667)	6 (152.4)	1 1/2 (38.1)	2 1/4 (57.2)	3 3/8 (85.7)	1 3/8 (34.9)	1 13/16 (46)	1 1/2 (38.1)	15.75 (7.14)

(1) These shackles are type BNK (furnished with Bolt, Nut and Cotter Key).

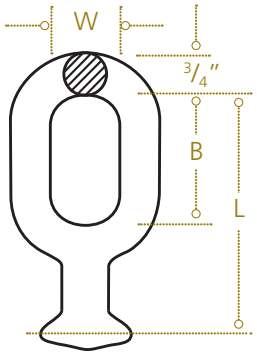
Ball Eyes

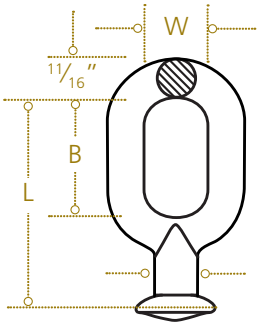
FORGED STEEL

BE

Ball eyes are used to attach ball and socket insulators to other associated hardware. The use of the ball oval-eye and an anchor shackle is one of the most common distribution tower attachment combinations.

Material: Body – *galvanized steel*







Product Data

Catalog Number	Ultimate Strength lb (Kn)	Dimensions Inches (mm)			Approx Wt Each lb (kg)
		L	B	W	
BE30[1]	30,000 (133)	3 23/32 (94.5)	2 (50.8)	1 (25.4)	1.00 (.45)
909462000[2]	50,000 (222)	4 1/2 (114.3)	2 1/2 (63.5)	1 1/4 (31.8)	1.55 (.70)

(1) For use with class 52-3 and 52-5 insulators per ANSI Spec. C-29.2-71.

(2) For use with class 52-8 and 52-11 insulators per ANSI Spec. C-29.2-71.

Hardware Fittings — *Forged Steel*

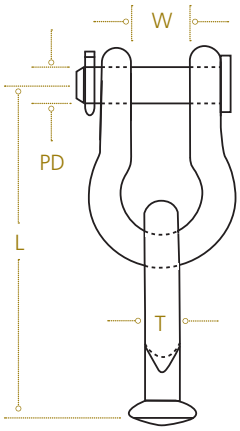
Ball Oval-Eye Anchor Shackle Combination

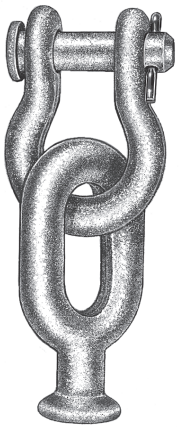
FORGED STEEL

BEAS

Ball oval-eye anchor shackle combinations are popular combinations which are sold as assemblies to save field assembly time. Contact factory for other pre-assembled combinations.

Material: Body – *galvanized steel*





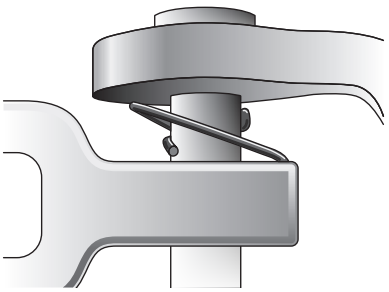
Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)				Approx Wt Each lb (kg)
		W	L	T	PD	
BE30AS25	30,000 (133)	⅞ (22.2)	5 29/32 (150)	11/16 (17.5)	⅝ (15.9)	1.74 (.79)
BE30AS35	30,000 (133)	1 1/16 (27)	6½ (165.1)	11/16 (17.5)	¾ (19.1)	2.47 (1.12)
BE30AS50	30,000 (133)	⅞ (22.2)	7 7/32 (183.4)	11/16 (17.5)	¾ (19.1)	3.25 (1.47)

NOTE: For use with class 52-3 and 52-5 insulators per ANSI Spec. C-29.2-71. Other combinations may be used, contact factory for additional information. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

Steel

Clevis connections, especially if working under light mechanical load, can develop oxide films on their bearing surfaces. If these films are not fractured by weight and movement, they are subject to puncture by line voltages whose small discharges can create RIV. By establishing a shunt around the clevis joint, by means of RIV clips, the condition is easily remedied. Clips are made of spring stainless steel wire with ends cut flat and sharp to give good point contact. They are held securely by snapping around the Clevis Pin. Clip weight is 0.845 pounds per hundred.



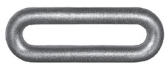
RIV Clip
Catalog Number 941104001

Hardware Fittings — *Forged Steel*

Chain Links

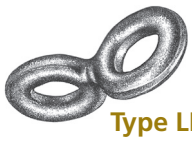
FORGED STEEL

LK





Type LK8



Type LK8T

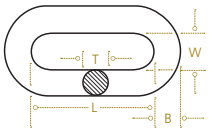


Figure 1

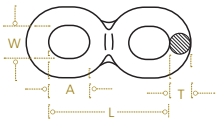


Figure 2

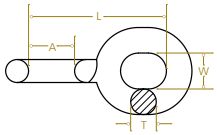


Figure 3

Links are used to maintain proper tower clearance and connect associated hardware within an insulator string.

Material: Body – *galvanized steel*

Product Data

Catalog Number	Figure Number	Ultimate Strength lb (kN)	Dimensions Inches mm)					Approx Wt Each lb (kg)
			L	A	B	W	T	
LK30	1	30,000 (133)	2¼ (57.2)	—	½ (12.7)	1 (25.4)	½ (12.7)	.44 (.20)
LK60	1	60,000 (267)	3½ (88.9)	—	¾ (19.1)	1 (25.4)	¾ (19.1)	1.5 (.68)
LK80	1	80,000 (356)	4 (101.6)	—	⅞ (22.2)	1¼ (31.8)	⅞ (22.2)	2.15 (.96)
LK120CVN	1	120,000 (533)	4 (102)	—	1 (25.4)	1¼ (31.8)	1 (25.4)	3.1 (1.41)
LK150	1	150,000 (667)	5½ (139.7)	—	1⅜ (34.9)	1¾ (44.5)	1⅜ (34.9)	6.90 (3.13)
LK830	2	30,000 (133)	3⅜ (85.7)	1⅛ (28.6)	—	⅞ (22.2)	9⁄16 (14.3)	.75 (.34)
LK830T	3	30,000 (133)	3⅜ (85.7)	1⅛ (28.6)	—	⅞ (22.2)	9⁄16 (14.3)	.75 (.34)
792722000	1	45,000 (200)	3¼ (82.6)	—	11⁄16 (17.5)	1 (25.4)	11⁄16 (17.5)	.95 (.43)

Hardware Fittings — *Forged Steel*

Hooks

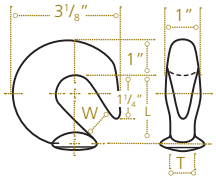
FORGED STEEL
HB



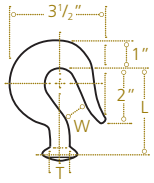
HBL



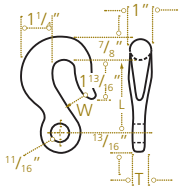
HB



HB30



HB30L



Number 792702000
ANSI Class 52-4 & 52-6

Hooks are used to attach ball and socket or clevis insulators directly to the tower attachment pad. All hooks are of the self-locking design.

Product Data

Catalog Number	Ultimate Strength lb (Kn)	Dimensions Inches (mm)			Approx Wt Each lb (kg)
		L	W	T	
HB30	30,000 (133)	2 (50.8)	13/16 (20.6)	23/32 (18.3)	1.05 (.48)
HB30L	30,000 (133)	3 1/8 (79.4)	7/8 (22.2)	23/32 (18.3)	1.33 (.60)
792702000	30,000 (133)	3 (76.2)	13/16 (20.6)	1/2 (12.7)	1.30 (.59)

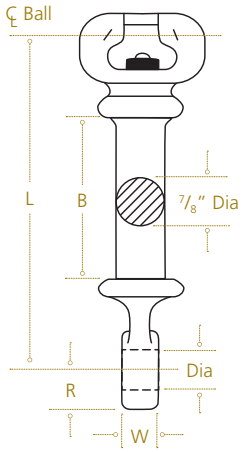
NOTE: Hooks for use with class 52-3 and 52-5 insulators per ANSI Spec. C-29.2-71. 797202000 for use with class 52-4 and 52-6 clevis type insulators per ANSI Spec. C-29.2-71.

Hardware Fittings — *Ductile Iron*

Hot Line Socket Eye

Hot line socket eyes are used to connect ball and socket insulators to other associated hardware. Shoulders are provided to accommodate hot line tools.

Material: Body – *galvanized ductile iron*
Cotter Pin – *stainless steel*





DUCTILE IRON

HSE

Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)					Approx Wt Each lb (kg)
		L	B	W	R	Diameter	
HSE07712	30,000 (133)	7⅞ (200)	4⅛ (105)	1¼ (31.8)	1 (25.4)	11⁄16 (17.5)	3.23 (1.47)
HSE10004	19,000 (85)	10 (254)	6¼ (159)	½ (12.7)	13⁄16 (20.6)	11⁄16 (17.5)	2.78 (1.26)
HSE10005	30,000 (133)	10 (254)	6¼ (159)	⅝ (15.9)	⅞ (22.2)	11⁄16 (17.5)	2.87 (1.30)
HSE100055	30,000 (133)	10 (254)	6¼ (159)	11⁄16 (17.5)	⅞ (22.2)	11⁄16 (17.5)	2.9 (1.32)
HSE10006	30,000 (133)	10 (254)	6¼ (159)	¾ (19.1)	⅞ (22.2)	11⁄16 (17.5)	2.97 (1.35)
HSE100065	30,000 (133)	10 (254)	6¼ (159)	13⁄16 (20.6)	15⁄16 (23.8)	13⁄16 (20.6)	3.00 (1.36)
HSE1000613	30,000 (133)	10 (254)	6¼ (159)	¾ (19.1)	⅞ (22.2)	13⁄16 (20.6)	2.97 (1.35)
HSE10010	30,000 (133)	10 (254)	6¼ (159)	1 (25.4)	1 (25.4)	1 1⁄16 (27.1)	3.00 (1.36)
HSE100105	30,000 (133)	10 (254)	6¼ (159)	1 1⁄16 (27.1)	1¼ (31.8)	1 1⁄16 (27.1)	3.10 (1.41)
HSE10012	30,000 (133)	10 (254)	6¼ (159)	1¼ (31.8)	1 (25.4)	1 3⁄16 (30.2)	3.10 (1.41)
HSE100121116	30,000 (133)	10 (254)	6¼ (159)	1¼ (31.8)	1 (25.4)	11⁄16 (17.5)	3.20 (1.45)
HSE10016	30,000 (133)	10 (254)	6¼ (159)	1¾ (44.5)	13⁄16 (20.6)	11⁄16 (17.5)	3.90 (1.77)
HSE12560613	30,000 (133)	12 9⁄16 (319.1)	8 13⁄16 (224)	¾ (19.1)	1 (25.4)	13⁄16 (20.6)	3.36 (1.52)
HSE1001550(1)	50,000 (222)	10 (254)	6½ (165)	1⅝ (41.3)	2 (50.8)	1 1⁄16 (27.1)	5.15 (2.34)
HSE10015501(1)	50,000 (222)	10 (254)	6½ (165)	1 11⁄32 (34.1)	2 (50.8)	1 1⁄16 (27.1)	4.90 (2.22)

NOTE: Others for use with ANSI class 52-3 and 52-5 insulators.

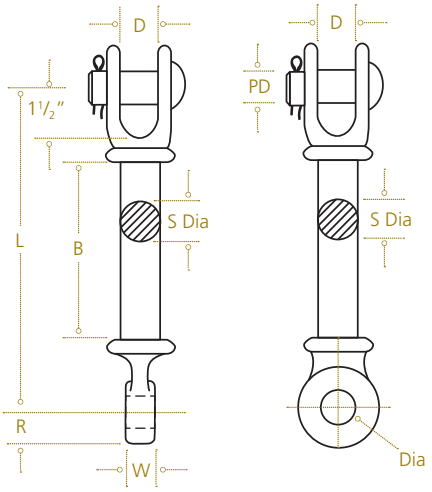
(1) These items for use with ANSI class 52-8 and 52-11 insulators.

Hardware Fittings — *Ductile Iron*

Hot Line Extension Clevis Eye

Hot line clevis eyes are used to connect clevis tongue insulators to various associated hardware. Shoulders are provided to accommodate hotline tools.

Material: Body – *galvanized ductile iron*
Clevis Pin – *galvanized steel*
Cotter Pin – *stainless steel*



TYPE HCE90

DUCTILE IRON
HCE



TYPE HCE

Product Data

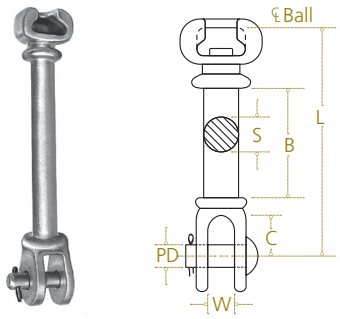
Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)								Approx Wt Each lb (kg)
		L	B	D	W	R	Diameter	PD	S	
HCE0705	30,000 (133)	7 (177.8)	3 (76.2)	13/16 (20.6)	5/8 (15.9)	7/8 (22.2)	11/16 (17.5)	5/8 (15.9)	7/8 (22.2)	2.5 (1.13)
HCE10005	30,000 (133)	10 (254)	6 (152.4)	13/16 (20.6)	5/8 (15.9)	7/8 (22.2)	11/16 (17.5)	5/8 (15.9)	7/8 (22.2)	2.7 (1.22)
HCE1000590	30,000 (133)	10 (254)	6 (152.40)	1 (25.4)	5/8 (15.9)	7/8 (22.2)	11/16 (17.5)	5/8 (15.9)	7/8 (22.2)	2.8 (1.27)
HCE10006	30,000 (133)	10 (254)	6 (152.4)	13/16 (20.6)	3/4 (19.1)	7/8 (22.2)	11/16 (17.5)	5/8 (15.9)	7/8 (22.2)	3.1 (1.41)
HCE1000613	30,000 (133)	10 (254)	6 (152.4)	13/16 (20.6)	3/4 (19.1)	7/8 (22.2)	13/16 (20.6)	5/8 (15.9)	7/8 (22.2)	3.1 (1.41)
HCE1101240	40,000 (178)	11 (279.4)	6 (152.4)	7/8 (22.2)	1 1/4 (31.8)	1 1/4 (31.8)	1 3/16 (30.2)	3/4 (19.1)	1 1/8 (28.6)	3.52 (1.60)

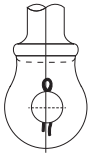
Hardware Fittings — *Ductile Iron*

Hot Line Extension Socket Clevis

Hot line socket clevis are used to connect ball and socket insulators to other associated hardware. Shoulders are provided to accommodate hot line tools.

Material: Body – *galvanized ductile iron*
Clevis Pin – *galvanized steel*
Cotter Pin – *stainless steel*





HSC110501

DUCTILE IRON
HSC

Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)						Approx Wt Each lb (kg)
		L	B	C	W	PD	S	
HSC083	30,000 (133)	8⅜ (212.7)	4⅝ (117.5)	1½ (38.1)	1 (25.4)	⅝ (15.9)	⅞ (22.2)	3.0 (1.36)
HSC100	30,000 (133)	10 (254)	6¼ (158.8)	1½ (38.1)	1 (25.4)	⅝ (15.9)	⅞ (22.2)	3.5 (1.59)
HSC10035	35,000 (156)	10 (254)	6³⁄₃₂ (154.8)	1⅝ (41.3)	1 (25.4)	¾ (19.1)	1³⁄₃₂ (26.2)	4.5 (2.04)
HSC110501[1]	50,000 (222)	11 (279.4)	6¹³⁄₁₆ (173)	2 (50.8)	1¹⁵⁄₁₆ (33.3)	⅞ (22.2)	1³⁄₁₆ (30.2)	7.0 (3.18)
HSC110503[1]	50,000 (222)	11 (279.4)	6¹³⁄₁₆ (173)	2 (50.8)	¹⁵⁄₁₆ (23.8)	⅞ (22.2)	1³⁄₁₆ (30.2)	6.6 (3.0)

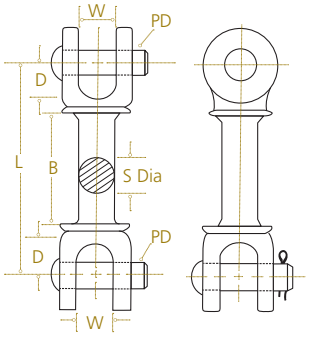
NOTE: For use with class 52-3 and 52-5 insulators per ANSI Spec. C-29.2-71. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

(1) For use with class 52-8 and 52-11 insulators per ANSI Spec. C-29.2-71.

Hot Line Clevis Clevis Type HCC

A hot line clevis clevis is used to connect associated hardware within an insulator string. Shoulders are provided to accommodate hot line tools.

Material: Body – *galvanized ductile iron*
Clevis Pin – *galvanized steel*
Cotter Pin – *stainless steel*





DUCTILE IRON
HCC

Product Data

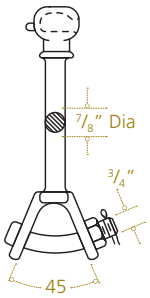
Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)						Approx Wt Each lb (kg)
		L	B	W	D	S Diameter	PD	
HCC30	30,000 (133)	10 (254)	5⅞ (149.2)	1 (25.4)	1⅝ (41.3)	⅞ (22.2)	⅝ (15.9)	3.4 (1.54)
HCC3090	30,000 (133)	10 (254)	6 (152.4)	1 (25.4)	1⅝ (41.3)	⅞ (22.2)	⅝ (15.9)	3.4 (1.54)
HCC4015	40,000 (178)	15 (381)	9¾ (247.6)	1¹⁄₁₆ (27)	2 (50.8)	1⅛ (28.6)	¾ (19.1)	4.5 (2.04)

Hardware Fittings — *Ductile Iron*

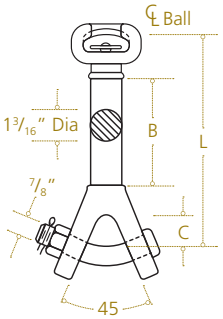
Hot Line Socket Y-Clevis Type HSYC

Hot line socket Y-clevises are used to attach ball and socket insulators to other associated hardware. Shoulders are provided to accommodate hot line tools and the bent bolt in the Y-section provides an additional point of articulation within an assembly.

Material: Body – *galvanized ductile iron*
Hardware – *galvanized steel*
Cotter Pin – *stainless steel*



HSYC3090



HSYC50

DUCTILE IRON
HSYC



Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimension Inches (mm)			Approx Wt Each lb (kg)
		L	B	C	
HSYC30	30,000 (133)	9 11/16 (246.1)	6 (152.4)	1 9/16 (39.7)	3.6 (1.63)
HSYC3090	30,000 (133)	9 11/16 (246.1)	6 (152.4)	1 9/16 (39.7)	3.6 (1.63)
HSYC50[1]	50,000 (222)	10 5/16 (261.9)	5 29/32 (150)	1 5/8 (41.3)	7.5 (3.40)

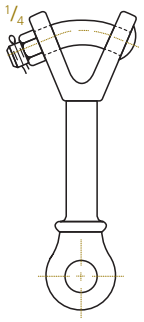
NOTE: For use with class 52-3 and 52-5 insulators per ANSI Spec. C-29.2-71.

(1) For use with class 52-8 and 52-11 insulators per ANSI Spec. C-29.2-71.

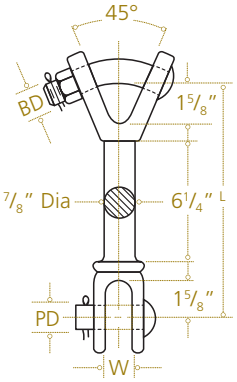
Hot Line Y-Clevis Clevis Type HYCC

Hot line Y-clevis clevises are used to connect associated hardware within an insulator string. Shoulders are provided to accommodate hot line tools and the bent bolts in the Y-clevises provide additional points of articulation within an assembly.

Material: Body – *galvanized ductile iron*
Hardware – *galvanized steel*
Cotter Pin – *stainless steel*



Type HYCC90



Type HYCC

DUCTILE IRON
HYCC



Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)				Approx Wt Each lb (kg)
		L	W	PD	BD	
HYCC30	30,000 (133)	10 3/8 (263.5)	1 (25.4)	5/8 (15.9)	3/4 (19.1)	3.5 (1.59)
HYCC3090	30,000 (133)	10 3/8 (263.5)	1 (25.4)	5/8 (15.9)	3/4 (19.1)	3.5 (1.59)

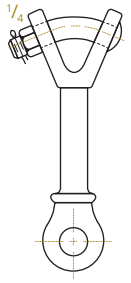
NOTE: Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

Hardware Fittings — *Ductile Iron*

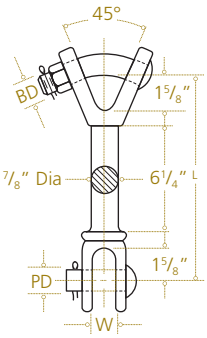
Hot Line Y-Y-Clevis

Hot line Y-Y-clevis is used to connect associated hardware within an insulator string or connecting deadend clamps to yoke plates providing clearances for jumper ends. Shoulders are provided to accommodate hot line tools and the bent bolts in the Y-clevises provide additional points of articulation within an assembly.

Material: Body – *galvanized ductile iron*
Hardware – *galvanized steel*
Cotter Pin – *stainless steel*



Type HYCC90



Type HYCC

DUCTILE IRON
HYYC



Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)				Approx Wt Each lb (kg)
		L	B	BD Diameter	S Diameter	
HYYC3015	30,000 (133)	15 (381)	10 3/8 (263.7)	3/4 (19.1)	7/8 (22.2)	4.3 (1.98)
HYYC50157	50,000 (222)	15 (381)	10 1/8 (257.2)	7/8 (22.2)	1 1/8 (28.6)	9.0 (4.08)

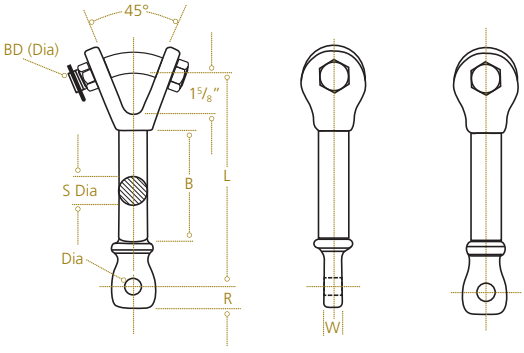
Hot Line Y-Clevis Eye

Hot line Y-clevis eyes are used to connect associated hardware within an insulator string. Shoulders are provided to accommodate hot line tools. The bent bolt in the Y-section provides an additional point of articulation within an assembly.

Material: Body – *galvanized ductile iron*
Hardware – *galvanized steel*
Cotter Pin – *stainless steel*



Type HYCE



Type HYCE90

DUCTILE IRON
HYCE

Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)							Approx Wt Each lb (kg)
		L	R	S Diameter	B	Diameter	W	BD	
HYCE1512	15,000 (67)	12 (304.8)	15/16 (23.8)	5/8 (15.9)	7 3/8 (187.3)	11/16 (17.5)	1/2 (12.7)	3/4 (19.1)	3.4 (1.54)
HYCE3011	30,000 (133)	11 (279.4)	15/16 (23.8)	7/8 (22.2)	6 3/8 (161.9)	11/16 (17.5)	5/8 (15.9)	3/4 (19.1)	4.2 (1.91)
HYCE301190	30,000 (133)	11 (279.4)	15/16 (23.8)	15/16 (23.8)	6 3/8 (161.9)	11/16 (17.5)	5/8 (15.9)	3/4 (19.1)	4.57 (2.07)
HYCE301590	30,000 (133)	15 (381)	15/16 (23.8)	15/16 (23.8)	10 3/8 (263.5)	11/16 (17.5)	5/8 (15.9)	3/4 (19.1)	5.09 (2.31)
HYCE401190	40,000 (178)	11 (279.4)	1 1/32 (26.2)	1 1/8 (28.6)	6 5/8 (168.3)	13/16 (20.6)	25/32 (19.8)	7/8 (22.2)	4.87 (2.20)

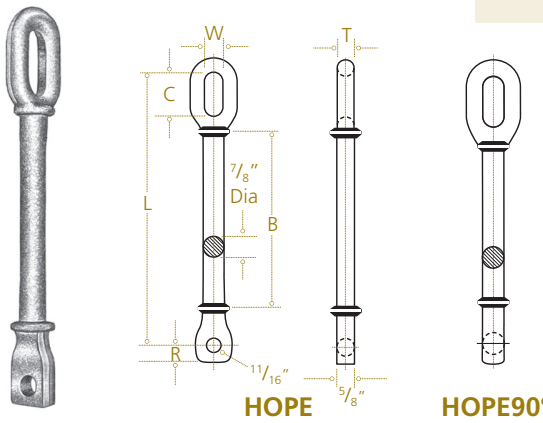
Hardware Fittings — *Ductile Iron, Forged Steel*

Ductile Iron Hot Line Oval-Eye Pad Eye

DUCTILE IRON
HOPE

Hot line oval-eye, pad-eye extension link is used to maintain proper tower clearance and can be used to connect clevis tongue insulators to various associated hardware.

Material: Body – *galvanized ductile iron*



Product Data

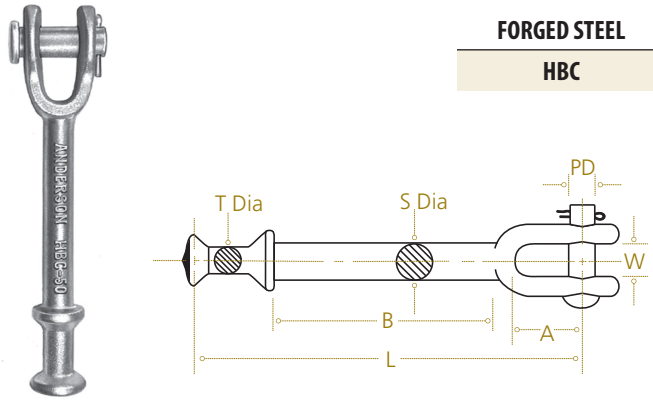
Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)						Approx Wt Each lb (kg)
		L	B	C	R	W	T	
HOPE3012	30,000 (133)	12 (304.8)	7 (177.8)	2⅛ (54)	15⁄16 (23.8)	15⁄16 (23.8)	23⁄32 (18.3)	2.8 (1.27)
HOPE301290	30,000 (133)	12 (304.8)	7 (177.8)	2⅛ (54)	15⁄16 (23.8)	15⁄16 (23.8)	13⁄16 (20.6)	2.8 (1.27)

Forged Steel Hot Line Ball Clevis

FORGED STEEL
HBC

Hot line ball clevises are used to attach ball and socket insulators to other associated hardware within an insulator string. Shoulders are provided to accommodate hot line tools.

Material: Body – *galvanized steel*
Clevis Pin – *galvanized steel*
Cotter Pin – *stainless steel*



Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)							Approx Wt Each lb (kg)
		A	L	B	W	PD	S Diameter	T Diameter	
HBC30	30,000 (133)	1¾ (44.5)	9⁹⁄16 (242.9)	5⅞ (149.2)	13⁄16 (20.6)	⅝ (15.9)	⅞ (22.2)	23⁄32 (18.3)	2.45 (1.11)
HBC50 (1)	50,000 (222)	1⅞ (47.6)	10⅛ (255.6)	5⅜ (136.5)	15⁄16 (23.8)	⅞ (22.2)	⅞ (22.2)	57⁄64 (22.6)	3.50 (1.59)

NOTE: Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number. Add "BNK" suffix to specify link with bolt, nut and cotter key.

(1) For use with class 52-8 and 52-11 insulators per ANSI Spec. C-29.2-71.

Hardware Fittings — *Forged Steel*

Hot Line Y-Clevis Ball

Hot line Y-clevis balls are used to attach ball and socket insulators to other associated hardware within an insulator string. Shoulders are provided to accommodate hot line tools and the bent bolt in the Y-section provides an additional point of articulation within an assembly.

Material: Body – *galvanized steel*
Clevis Pin – *galvanized steel*
Cotter Pin – *stainless steel*

Fig 1

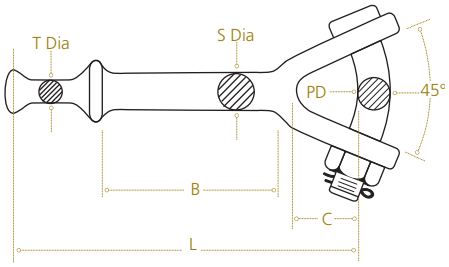
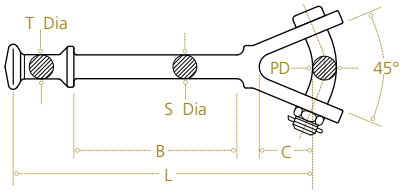


Fig 2



FORGED STEEL
HYBC



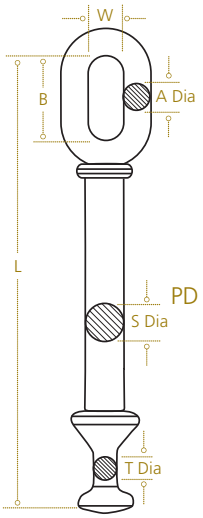
Product Data

Catalog Number	Ultimate Strength lb (kN)	Figure Number	Dimensions Inches (mm)						Approx Wt Each lb (kg)
			L	B	C	PD	S Diameter	T Diameter	
HYBC30	30,000 (133)	1	9 5/16 (236.5)	5 3/8 (136.5)	1 1/2 (38.1)	3/4 (19.1)	7/8 (22.2)	23/32 (18.3)	2.8 (1.27)
HYBC5011[1]	50,000 (222)	2	11 (279.4)	6 13/16 (173)	1 11/16 (42.9)	7/8 (22.2)	7/8 (22.2)	57/64 (22.6)	4.42 (2.00)

Hot Line Oval-Eye Ball

Hot line oval-eye ball is used to attach ball and socket insulators to other associated hardware within an insulator string. Shoulders are provided to accommodate hot line tools.

Material: Body – *galvanized steel*





FORGED STEEL
HOEB

Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)						Approx Wt Each lb (kg)
		A	B	L	W	S Diameter	T Diameter	
HOEB30	30,000 (133)	1 1/16 (17.5)	2 (50.8)	11 (279.4)	1 (25.4)	7/8 (22.2)	23/32 (18.3)	2.31 (1.05)

NOTE: For use with class 52-3 and 52-5 insulators per ANSI Spec. C-29.2-71.

(1) For use with class 52-8 and 52-11 insulators per ANSI Spec. C-29.2-71.

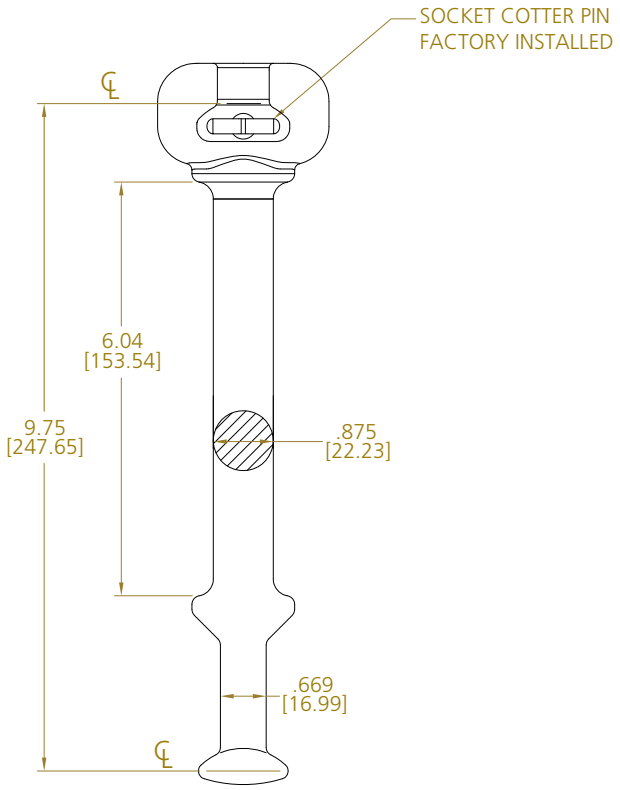
Hardware Fittings — *Forged Steel*

Hot Line Socket Ball

FORGED STEEL
HSB133

Hot line socket ball links are used to attach socket & ball insulators to associated hardware. Typiclal application is the insulator-to-deadend clamp connection on single conductor deadend assemblies. HSB133 approved for applicaiton on IEC 16 or ANSI 52-5 socket & ball connections.

Material: Link Body – *galvanized steel*
Cotter Pin – *stainless steel*



Product Data

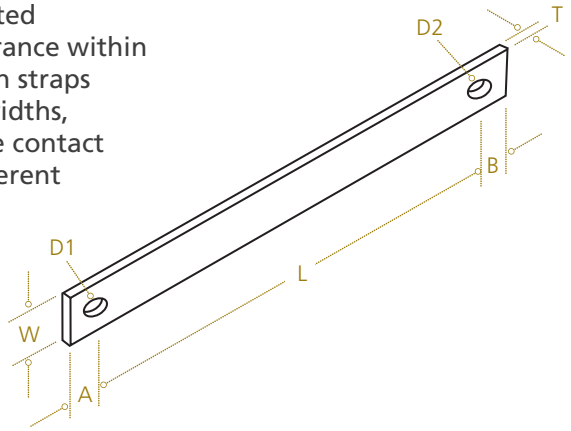
Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)				Socket & Ball Dimension Standard	Approx Wt Each lb (kg)
		L	B	S	T		
HSB133	30,000 (133)	9.75 (248)	6.04 (154)	0,875 (22.2)	0.669 (17.0)	IEC 16	2.81 (1.27)

Extension Strap

STEEL
ES

Extension straps are used to attach associated hardware and maintain proper tower clearance within a transmission assembly. Because extension straps may be furnished in a variety of lengths, widths, thicknesses, as well as hole spacings, please contact factory for dimensional variations and different ultimate strengths.

Material: Body – *galvanized steel*



Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)							Approx Wt Each lb (kg)	
		A	B	D1	D2	W	T	L	Min L	Add Per Inch
ES307819L	30,000 (133)	1⅛ (28.6)	1⅛ (28.6)	15⁄16 (23.8)	15⁄16 (23.8)	2 (50.8)	¾ (19.1)		2.62 (1.19)	.44 (.60)
ES407819L	40,000 (178)	1½ (38.1)	1½ (38.1)	15⁄16 (23.8)	15⁄16 (23.8)	2½ (63.5)	¾ (19.1)	MIN "L"	3.67 (1.66)	.55 (.25)
ES607819L	60,000 (267)	2 (50.8)	2 (50.8)	1⅛ (28.6)	1⅛ (28.6)	2½ (63.5)	1 (25.4)	4" PLEASE SPECIFY	5.60 (2.54)	.73 (.33)
ES807819L	80,000 (356)	2 (50.8)	2 (50.8)	1¼ (31.8)	1¼ (31.8)	3 (76.2)	1 (25.4)		6.72 (3.05)	.87 (.39)

NOTE: To specify catalog number, replace "L" with required length in inches. Example: ES40781936 for 40K strap 36" between hole centers.

Hardware Fittings — *Forged Steel*

Hot Line Extension Links

FORGED STEEL
H/F

Extension links are forged from high-strength steel and contain no welded joints. Because of the variety of fittings and lengths, links are made only to order. Please specify by catalog number and length required.

Material: Body – *galvanized steel*

Product Data

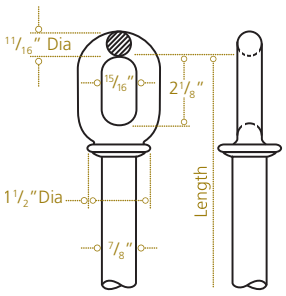
Identification	Ultimate Strength lb (kN)	Shape And Orientation Of Ends	Catalog Number	Figure Number	Available Range of Lengths		Approx Packed Weight[1] Per 100 Minimum Length lb (kg)
					Minimum Inches (mm)	Maximum Inches (mm)	
Chain Eye/Chain Eye	30,000 (133)		HOO30L	1	12 (305)	144 (3,658)	383 (174)
			HOOT30L				
	40,000 (178)		HOO40L	2	12 (305)	144 (3,658)	383 (174)
			HOOT40L				
	60,000 (267)		HOO50L	3	13 (330.)	144 (3,658)	536 (243)
			HOOT50L				
	80,000 (356)		HOO80L	4	14 (356)	144 (3,658)	616 (279)
			HOOT80L				
Clevis Eye	30,000 (133)		FHCE30L	5 & 9	11 (279)	144 (3,658)	366 (166)
			FHCE30L90				
Y-Clevis Eye	30,000 (133)		FHYCE30L	7 & 9	11 (279)	144 (3,658)	369 (167)
			FHYCE30L90				
Chain Eye/Eye	30,000 (133)		FOPE30L	2 & 9	11 (279)	144 (3,658)	294 (133)
			FOPE30L90				
Clevis/Clevis	30,000 (133)		FHCC30L	5	12 (305)	144 (3,658)	372 (169)
			FHCC30L90				
Chain Eye/Clevis	30,000 (133)		FHOEC30L	2 & 5	11 (279)	144 (3,658)	357 (162)
			FHOEC30L90				
	50,000 (222)		FHOEC50L	3 & 6	12 (305)	144 (3,658)	527 (239)
			FHOEC50L90				
Chain Eye/Y-Clevis	30,000 (133)		HYCOE30L	2 & 7	11 (279)	144 (3,658)	451 (205)
			HYCOE30L90				
	50,000 (222)		HYCOE50L	3 & 8	14 (356)	144 (3,658)	451 (205)
			HYCOE50L90				
Clevis/Ball	30,000 (133)		HBC30L	5 & 10	11 (279)	24 (610)	272 (123)
	50,000 (222)		HBC50L	6 & 11	11 (279)	24 (610)	420 (291)
Y-Clevis/Ball	30,000 (133)		HYBC30L	7 & 10	11 (279)	24 (610)	342 (155)
	50,000 (222)		HYBC50L	8 & 11	11 (279)	24 (610)	442 (200)
Chain Eye/Ball	30,000 (133)		HOEB30L	1 & 10	11 (279)	24 (610)	323 (147)
	50,000 (222)		HOEB50L	3 & 11	11 (279)	24 (610)	430 (195)

NOTE: Link length available ½" increments. Use letter "D" to represent decimal point in catalog number when applicable. Example: HOO3020D5 for 20½" length. Normal manufacturing tolerances: Up to 50" – ±0.5 inch. Above 50" – ±1%.

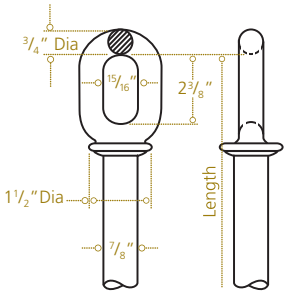
(1) For links longer than minimum length, add to packed weight per 100 pieces, 28 pounds per inch for number HOO80L and HOOT80L. All others, add 17 pounds per inch. Refer to next page for dimensions.

Hardware Fittings — *Forged Steel*

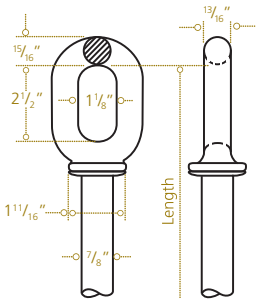
Hot Line Extension Links



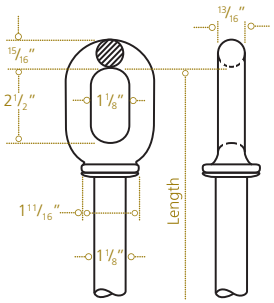
Chain Eye
Ultimate Strength – 30,000 lb
FIGURE 1



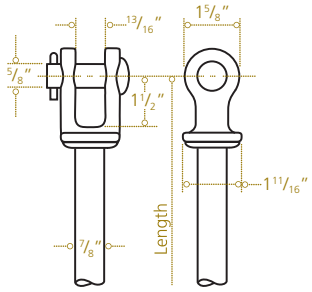
Chain Eye
Ultimate Strength – 40,000 lb
FIGURE 2



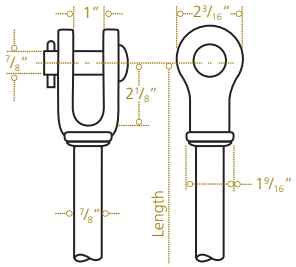
Chain Eye
Ultimate Strength – 60,000 lb
FIGURE 3



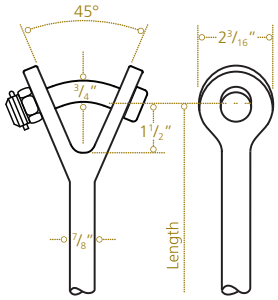
Chain Eye
Ultimate Strength – 80,000 lb
FIGURE 4



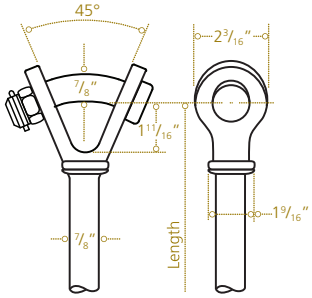
Clevis
Ultimate Strength – 30,000 lb
Connects with ANSI Class 52-4 and Class 52-6 insulators
FIGURE 5



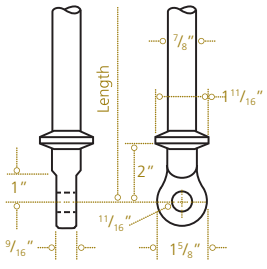
Clevis
Ultimate Strength – 50,000 lb
Connects with ANSI Class 52-12 insulators
FIGURE 6



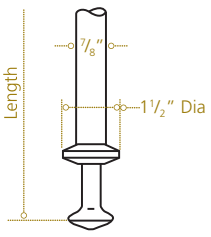
Y-Clevis
Ultimate Strength – 30,000 lb
FIGURE 7



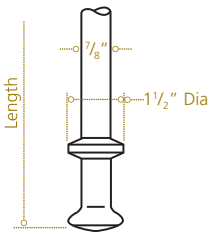
Y-Clevis
Ultimate Strength – 50,000 lb
FIGURE 8



Eye
Ultimate Strength – 30,000 lb
Connects with ANSI Class 52-4 and Class 52-6 insulators
FIGURE 9



Ball
Ultimate Strength – 30,000 lb
ANSI Class 52-3 and Class 52-5
FIGURE 10



Ball
Ultimate Strength – 50,000 lb
ANSI Class 52-8 and Class 52-11
FIGURE 11

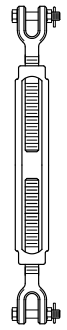
Hardware Fittings — *Forged Steel*

Turnbuckles

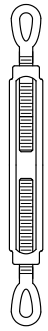
Turnbuckles are used as adjustable extension links to maintain proper tower clearance on assemblies at tower end.

Jaw ends are supplied with bolt, nut, and humpback cotter pin. Remove BNK suffix for Type EE turnbuckles.

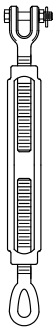
Material: Body – *galvanized forged steel*
Cotter Pin – *stainless steel*



Type JJ



Type EE



Type JE

FORGED STEEL
TB

Product Data

Catalog Number	Diameter and Take Up Inches (mm)	Closed Coupling Length Inches (mm)			Wt Each lb (kg)		
		Type JJ	Type EE	Type JE	Type JJ	Type EE	Type JE
TB34XX6BNK	¾ X 6 (19.1) (152.4)	15.1 (384)	17.2 (437)	16.2 (411)	4.6 (2.09)	3.89 (1.76)	4.3 (1.95)
TB34XX12BNK	12 (304.8)	21.5 (546)	23.6 (599)	22.6 (574)	6.0 (2.72)	5.43 (2.46)	5.7 (2.59)
TB34XX18BNK	18 (457.2)	27.5 (699)	29.6 (752)	28.6 (726)	7.7 (3.49)	7.0 (3.18)	7.3 (3.31)
TB78XX12BNK	⅞ X 12 (22.2) (304.8)	22.7 (577)	24.7 (627)	23.7 (602)	8.4 (3.81)	7.4 (3.36)	7.9 (3.58)
TB78XX18BNK	18 (457.2)	29.1 (739)	31.2 (792)	30.2 (767)	10.7 (4.85)	9.6 (4.35)	10.2 (4.63)
TB1XX6BNK	1 X 6 (25.4) (152.4)	17.8 (452)	20.2 (513)	19.0 (483)	9.7 (4.40)	9.0 (4.08)	9.4 (4.26)
TB1XX12BNK	12 (304.8)	23.8 (605)	26.2 (665)	25.0 (635)	11.0 (4.99)	11.2 (5.08)	11.6 (5.26)
TB1XX18BNK	18 (457.2)	29.8 (757)	32.2 (818)	31.0 (787)	14.8 (6.71)	13.8 (6.26)	14.3 (6.49)
TB1XX24BNK	24 (609.6)	36.4 (925)	38.8 (986)	37.6 (955)	18.2 (8.26)	17.1 (7.76)	17.6 (7.98)
TB114XX12BNK	1¼ X 12 (31.8) (304.8)	27.4 (696)	30.1 (765)	28.8 (732)	23.8 (10.8)	20.9 (9.48)	22.4 (10.2)
TB114XX18BNK	18 (457.2)	33.4 (848)	36.1 (917)	34.8 (884)	27.5 (12.5)	25.7 (11.7)	26.6 (12.1)
TB114XX24BNK	24 (609.6)	39.9 (1013)	42.7 (1085)	41.3 (1049)	33.7 (15.3)	29.7 (13.5)	31.7 (14.4)
TB112XX12BNK	1½ X 12 (38.1) (304.8)	28.8 (732)	32.2 (818)	30.5 (775)	38.1 (17.3)	29.0 (13.2)	33.5 (15.2)
TB112XX18BNK	18 (457.2)	34.8 (884)	38.2 (970)	36.5 (927)	44.2 (20.0)	35.2 (16.0)	39.7 (18.0)
TB112XX24BNK	24 (609.6)	41.4 (1052)	44.9 (1140)	43.1 (1095)	48.4 (22.0)	40.7 (18.5)	44.5 (20.2)

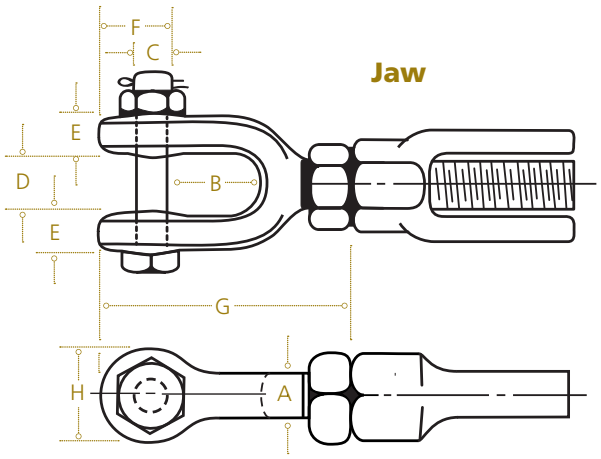
NOTE: When ordering, replace XX with Type in Catalog Number. Example: TB34JJ6BNK for jaw-jaw end fittings with 6" take up. BNK suffix not valid for Type EE turnbuckles. Add "LN" suffix if jam nuts are required. The torque required to rotate the boss of a turnbuckle under tension can be calculated by the formula:

T = 2 (kdW/12) ft-lb
Where: k = Friction factor (0.16)
d = Nominal thread diameter (inches)
W = Applied tension load (lb)

Example: ¾ turnbuckle under 4,000 lb tension
T = 2(0.16 x 0.75 x 4000 / 12) = 80 ft-lb

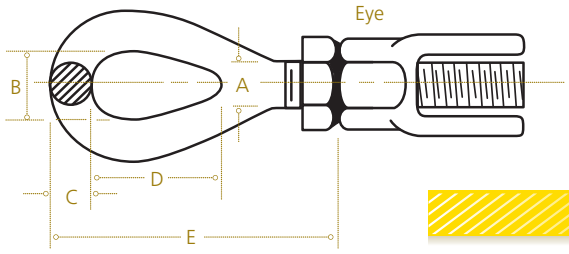
Hardware Fittings — *Forged Steel*

Turnbuckles



Jaw End Product Data

Dimensions Inches (mm)								Ultimate Strength Rating lb (kN)
A	B	C	D	E	F	G	H	
¾ (19.1)	1½ (38.1)	⅝ (15.9)	15⁄16 (23.8)	9⁄16 (14.3)	1 9⁄32 (32.5)	4⅛ (104.8)	1⅝ (41.3)	26,000 (116)
⅞ (22.2)	1¾ (44.5)	¾ (19.1)	1⅛ (28.6)	11⁄16 (17.5)	1 15⁄32 (37.3)	4 27⁄32 (123)	1⅞ (47.6)	36,000 (160)
1 (25.4)	2 1⁄16 (52.8)	⅞ (22.2)	1 3⁄16 (30.2)	25⁄32 (19.8)	1 21⁄32 (42.1)	5 17⁄32 (140.5)	2⅛ (54)	50,000 (222)
1¼ (31.8)	2 13⁄16 (71.4)	1⅛ (28.6)	1¾ (44.5)	1 (25.4)	2 3⁄32 (53.2)	7 3⁄16 (182.6)	2⅝ (66.7)	76,000 (338)
1½ (38.1)	2 13⁄16 (71.4)	1⅜ (34.9)	2 1⁄16 (52.8)	1 1⁄16 (27)	2 15⁄32 (64.3)	7⅞ (200)	3⅛ (79.4)	107,000 (476)



Eye End Product Data

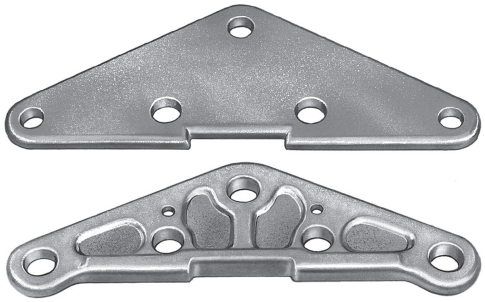
Dimensions Inches (mm)					Ultimate Strength Rating lb (kN)
A	B	C	D	E	
¾ (19.1)	1 (25.4)	⅝ (15.9)	2⅛ (54)	4 11⁄16 (119.1)	26,000 (116)
⅞ (22.2)	1¼ (31.8)	¾ (19.1)	2⅜ (60.3)	5¼ (133.4)	36,000 (160)
1 (25.4)	1 7⁄16 (36.5)	⅞ (22.2)	3 (76.2)	6⅜ (161.9)	50,000 (222)
1¼ (31.8)	1 13⁄16 (46)	1⅛ (28.6)	3 9⁄16 (90.5)	7¾ (196.9)	76,000 (338)
1½ (38.1)	2⅛ (54)	1¼ (31.8)	4⅛ (104.8)	8⅝ (219.1)	107,000 (476)

Hardware Fittings — *Ductile/Steel*

Yoke Plates Delta Configuration

DUCTILE/STEEL

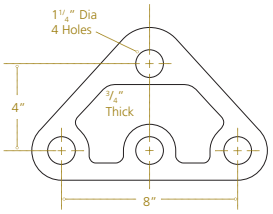
YPD



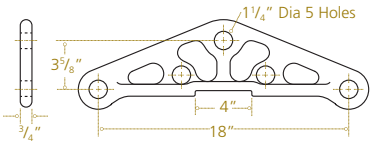
Delta Configuration
These yoke plates may be used to bundle two conductors in suspension application with a single string of insulators. They also may be used in deadend applications with two strings of insulators and one deadend clamp.

Type YPD may be furnished in a variety of sizes, hole spacings and ultimate strengths. For yokes with corona ring mounting provision, consult factory.

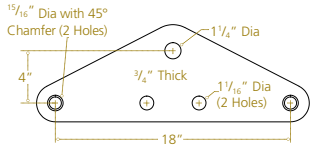
Material: Body – *galvanized ductile iron or galvanized steel*



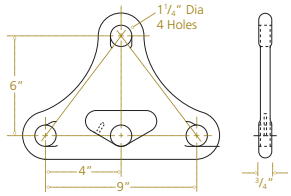
Catalog Number YPD5024685
Ultimate Strength — 50,000 lb
(Apex Hole). Ductile



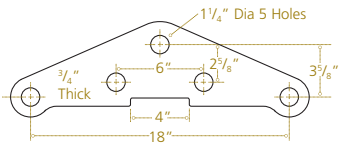
Catalog Number YPD3018437-3
Ultimate Strength — 30,000 lb
(Apex Hole). Ductile



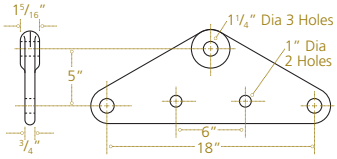
Catalog Number YPD7211574
Ultimate Strength — 72,000 lb
(Apex Hole). Steel



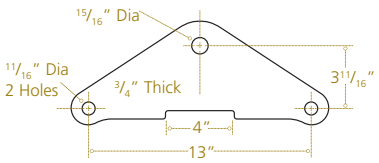
Catalog Number YPD3015238-2
Ultimate Strength — 30,000 lb
(Apex Hole). Ductile



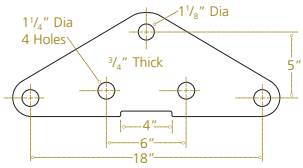
Catalog Number YPD4018342-4
Ultimate Strength — 40,000 lb
(Apex Hole). Ductile



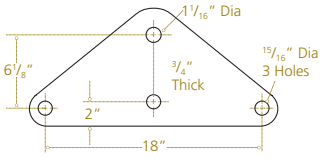
Catalog Number YPD8018475
Ultimate Strength — 80,000 lb
(Apex Hole). Ductile



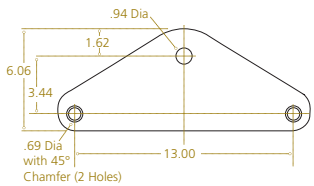
Catalog Number YPD4024465
Ultimate Strength — 40,000 lb
(Apex Hole). Ductile



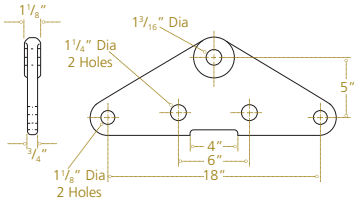
Catalog Number YPD5018549-1
Ultimate Strength — 50,000 lb
(Apex Hole). Ductile



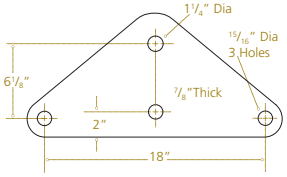
Catalog Number 947604001
Ultimate Strength — 90,000 lb
(Apex Hole). Steel



Catalog Number 796034001
Ultimate Strength — 60,000 lb
(Apex Hole). Steel

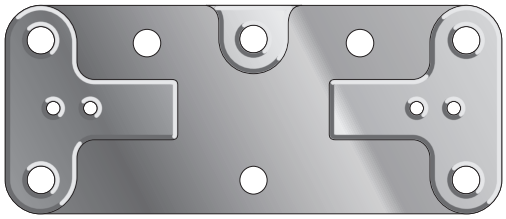


Catalog Number YPD60183771
Ultimate Strength — 60,000 lb
(Apex Hole). Ductile



Catalog Number 951544001
Ultimate Strength — 100,000 lb
(Apex Hole). Steel

Yoke Plates Rectangular Configuration

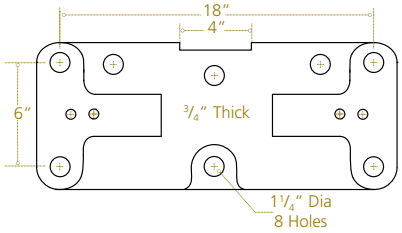


Rectangular Configuration

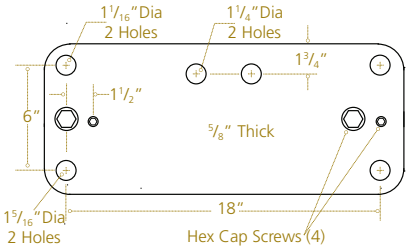
These yoke plates are used with a double string of insulators to deadend a two conductor bundle.

Type YPR yoke plates may be furnished in a variety of sizes, hole spacings, ultimate strengths and provisions for mounting corona rings.

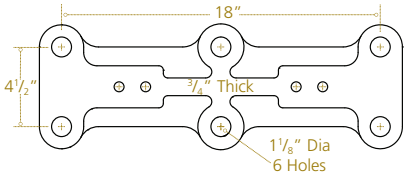
Material: Body – *galvanized ductile iron or galvanized steel*



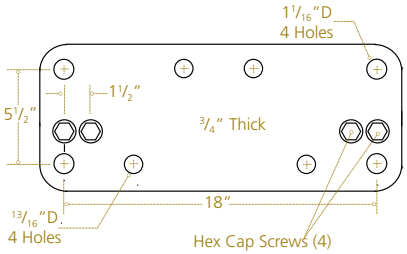
Ductile
Catalog Number YPR30187221
Ultimate Strength Per Insulator
Attachment Hole – 30,000 lb
Contact Factory for Lifting Hole Rating



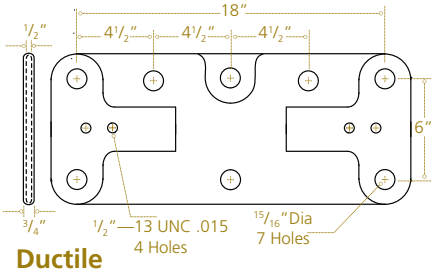
Steel
Catalog Number 976113002
Ultimate Strength Per Insulator
Attachment Hole – 30,000 lb



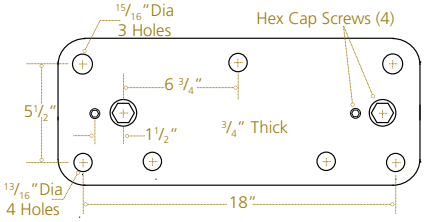
Ductile
Catalog Number YPR30173512
Ultimate Strength Per
Attachment Hole – 30,000 lb
Lifting Hole Rating – 30,000 lb



Steel
Catalog Number 950213002
Ultimate Strength Per Insulator
Attachment Hole – 50,000 lb



Ductile
Catalog Number YPR6019401
Ultimate Strength Per Insulator
Attachment Hole – 60,000 lb
Contact Factory for Lifting Hole Rating



Steel
Catalog Number 929333002
Ultimate Strength Per Insulator
Attachment Hole – 40,000 lb

Hardware Fittings — *Aluminum, Ductile/Steel*

Transmission Corona Rings

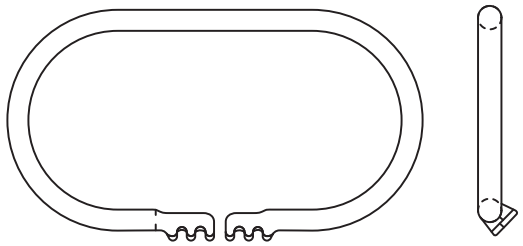
ALUMINUM

TCR

Type TCR corona rings are primarily used on deadend assemblies to grade the lower insulators on a string and shield the associated hot line hardware from corona and RIV. Type TCR corona rings are fabricated in a variety of sizes, shapes and mounting angles, depending on the system voltage and deadend assembly type.

Contact factory with deadend assembly details for assistance in specifying a specific TCR ring catalog number.

Material: Body – *galvanized ductile iron or galvanized steel*



Typical TCR

Yoke Plates Vee Configuration

DUCTILE/STEEL

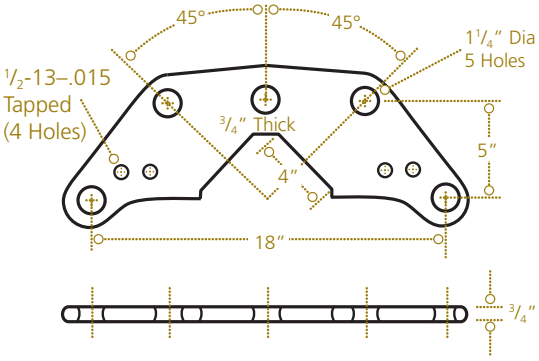
YPV



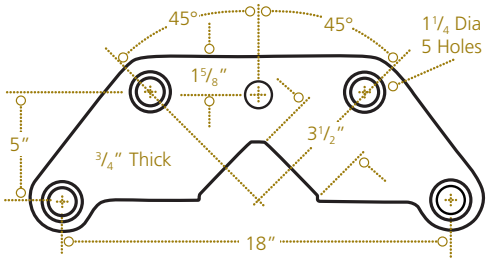
These yoke plates are used with a VEE string of insulators to attach a two conductor bundle.

Type YPV yoke plates may be furnished in a variety of sizes, hole spacing, ultimate strengths, insulator attachment angles and provisions for mounting corona rings.

Material: Body – *galvanized ductile iron or galvanized steel*



Ductile
Catalog Number YPV30172591
(With (4) ½" - 13 Holes)
Catalog Number YPV30172592
(Without (4) ½" - 13 Holes)
Ultimate Strength – 30,000 lb Per Insulator Attachment Hole at Indicated Angle
Contact Factory for Lifting Hole Rating



Steel
Catalog Number 930064004
Ultimate Strength – 40,000 lb Per Insulator Attachment Hole at Indicated Angle

Yoke Plates Crescent Configuration

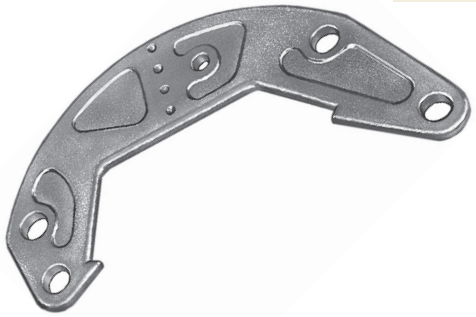
DUCTILE/STEEL

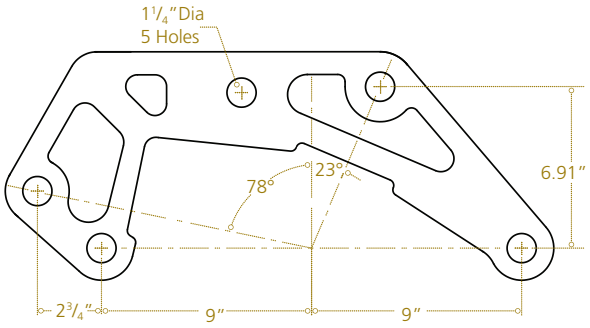
YPC

These yoke plates are used to bundle two conductors with a single and v-string, or single string, of insulators and maintain the proper running angle of the line.

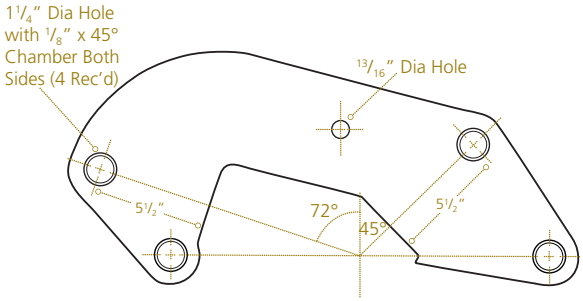
Type YPC yoke plates may be furnished in a variety of sizes, hole spacing, ultimate strengths and insulator attachment angles.

Material: Body – *galvanized ductile iron or galvanized steel*

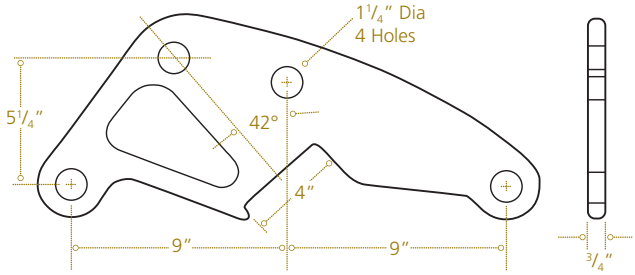




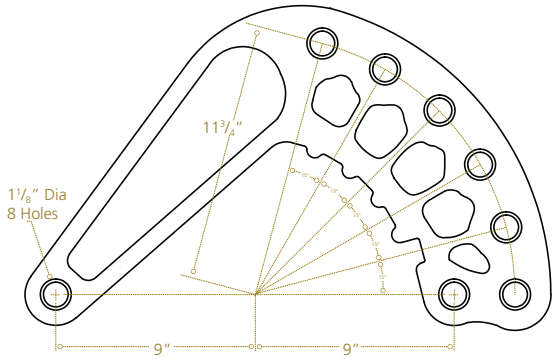
Ductile
Catalog Number – YPC30174241
Ultimate Strength – 30,000 lb Per Insulator
Attachment Hole at Indicated Angle
Contact Factory for Lifting Hole Rating



Steel
Catalog Number – 945834005
Ultimate Strength – 50,000 lb Per Insulator
Attachment Holes at Indicated Angle
Contact Factory for Lifting Hole Rating



Ductile
Catalog Number – YPC4024534
Ultimate Strength – 40,000 lb Per Insulator
Attachment Holes at Indicated Angle
Contact Factory for Lifting Hole Rating



Ductile
Catalog Number – YPC5026001
Ultimate Strength – 50,000 lb Per Insulator
Attachment Holes at Indicated Angle
Contact Factory for Lifting Hole Rating

Hardware Fittings — *Ductile Iron, Steel*

Yoke Plates Tee Configuration

DUCTILE IRON

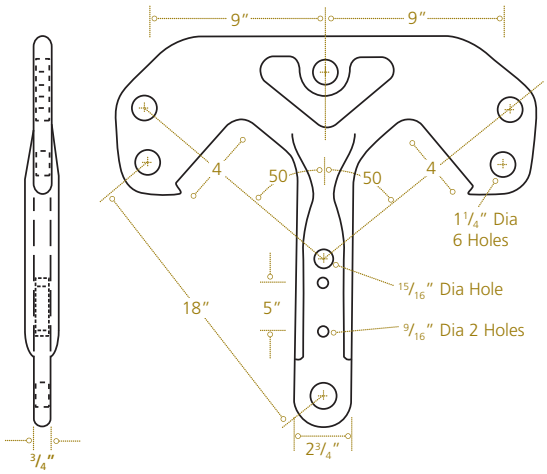
YPT



These yoke plates are used to bundle three conductors with a VEE string of insulators.

Type YPT yoke plates may be furnished in a variety of sizes, hole spacing, ultimate strengths, and insulator attachment angles.

Material: Body – *galvanized ductile iron*

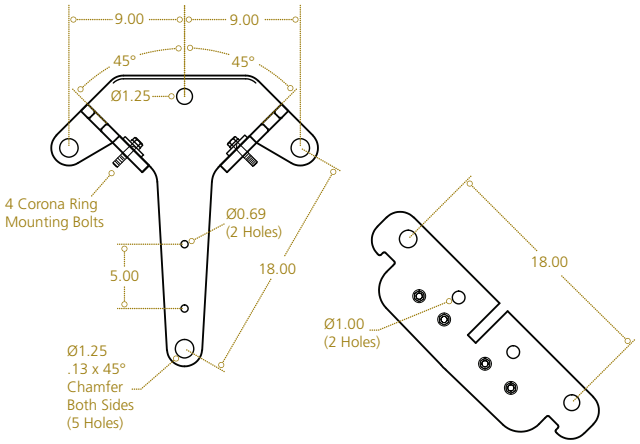


Catalog Number — YPT40236673
Ultimate Strength — 40,000 lb Per Insulator
Attachment Hole at Indicated Angle
Contact Factory for Lifting Hole Rating

Yoke Plate Tee-Batwing Configuration

STEEL

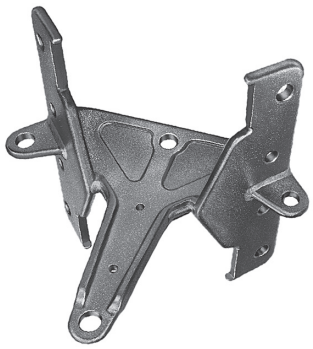
YPTB



These yoke plates are used to bundle three conductors with a double VEE string of insulators.

Type YPTB yoke plates may be furnished in a variety of sizes, hole spacing, ultimate strengths, and insulator attachment angles.

Material: Body – *galvanized steel*



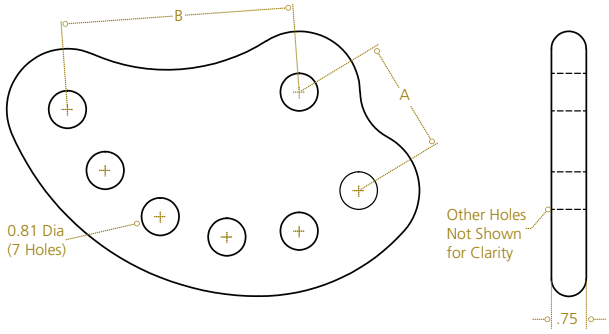
Catalog Number — YPTB40114894
Ultimate Strength — 40,000 lb Per Insulator
Attachment Hole at Indicated Angle
Contact Factory for Lifting Hole Rating

Hardware Fittings — *Ductile Iron, Steel*

Yoke Plate Tension-Adjustment Configuration

DUCTILE IRON

YPTA



Type YPTA tension-adjusting yoke plates are used to attach associated deadend hardware and maintain desired line tension. Adjustments are made by varying the assembly attachment point with the use of a CEEL093065 or similar part.

Material: Body – *galvanized ductile iron*

Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)				Approx Wt Each lb (kg)
		A	B	Total Adjustment	Step	
YPTA4025052	40,000 (178)	2½ (63.5)	5 (127)	2½ (63.5)	½ (12.7)	6.9 (3.13)

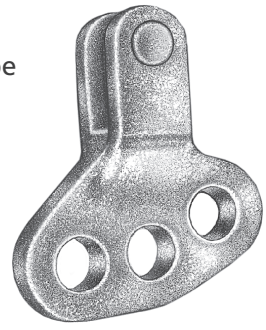
Yoke Plate (Tension-Adjustment Clevis)

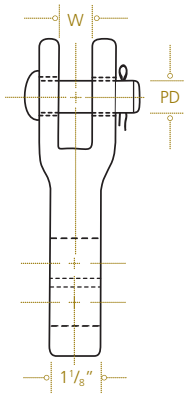
DUCTILE IRON

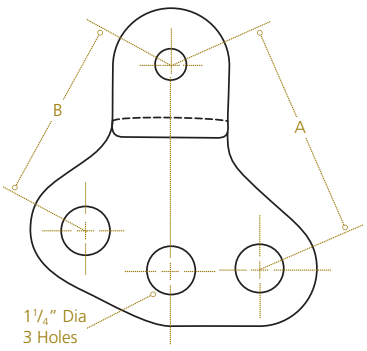
YPTAC

Type YPTAC tension adjusting yoke plates are used to attach associated deadend hardware and maintain desired line tension. Clevis type deadend clamps attach directly to yoke and can then be attached to associated hardware.

Material: Body – *galvanized ductile iron*
Clevis Pin – *galvanized steel*
Cotter Pin – *stainless steel*







Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimensions Inches (mm)							Approx Wt Each lb (kg)
		A	B	C	W	PD Diameter	Total Adjustment	Step	
YPTAC5024658	50,000 (222)	5½ (139.7)	4½ (114.3)	2 (50.8)	1 (25.4)	¾ (19.1)	1 (25.4)	½ (12.7)	7.5 (3.40)
YPTAC5012927(1)	50,000 (222)	10¼ (260.4)	7¾ (196.9)	3 7/16 (87.3)	⅞ (22.2)	¾ (19.1)	2½ (63.5)	½ (12.7)	12.5 (5.68)

(1) Yoke has 6 adjustment holes.

Hardware Fittings — *Aluminum*

Bundling Yoke Wishbone Configuration

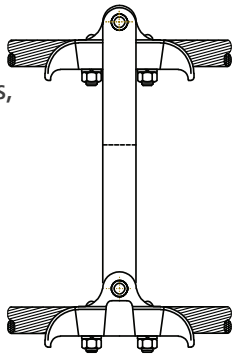


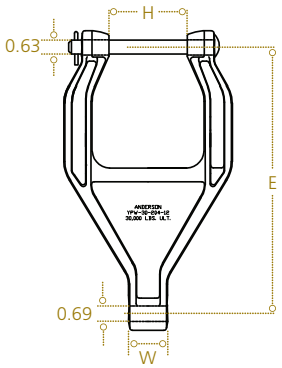
ALUMINUM

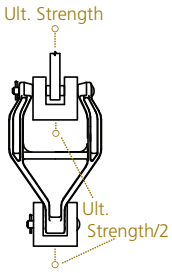
YPW

Type YPW yokes are used to vertically bundle conductors on new or rebuilt lines. Consequently, information as to conductor sizes, types of armor rod, if used, conductor spacing, ultimate strengths and existing clamp details must be given at time of ordering. YPW yokes are designed for use with Anderson™ clamps. Because YPW yokes may be furnished in a variety of sizes, conductor spacing, and ultimate strengths for both low voltage and EHV application, please contact factory for more details.

Material: Yoke Plate – *aluminum alloy*
Clevis Pin – *galvanized steel*
Cotter Pin – *stainless steel*







Product Data

Catalog Number	Suspension Clamp(1) Catalog Number Series/Size			Ultimate Strength lb (kN)	Dimensions Inches (mm)			Approx Wt Each lb (kg)
	HAS	CFS	CFSHT		E	H	W	
YPW121189	118	—	—	12,000 (53)	9 (229)	2.56 (65.1)	1.00 (25.4)	1.9 (.86)
YPW1513912	139	139	—	15,000 (67)	12 (305)	2.63 (69.9)	1.19 (30.2)	1.8 (.82)
YPW1514712	147	—	—	15,000 (67)	12 (305)	2.63 (69.9)	1.18 (30.0)	2.5 (1.1)
YPW1516212	162	—	—	15,000 (67)	12 (305)	2.84 (72.2)	1.63 (41.3)	2.5 (1.1)
YPW1520412	204	204	—	15,000 (67)	12 (305)	3.31 (84.1)	1.75 (44.5)	2.9 (1.3)
YPW3020412	182 & 204	182 & 204	182	30,000 (133)	12 (305)	3.50 (88.9)	1.75 (44.5)	3.2 (1.4)
YPW3021312	213	213 & 227	213	30,000 (133)	12 (305)	4.06 (103)	1.75 (44.5)	3.7 (1.7)
YPW3011818	118	118	—	30,000 (133)	18 (457)	2.63 (66.8)	1.06 (27.0)	4.5 (2.0)
YPW3013912	139 & 147	139	—	30,000 (133)	12 (305)	2.87 (72.9)	1.38 (35.1)	3.5 (1.6)
YPW3013918	139 & 147	139	—	30,000 (133)	18 (457)	2.87 (72.9)	1.38 (35.1)	4.5 (2.0)
YPW3018218	182 & 204	182 & 204	182	30,000 (133)	18 (457)	3.63 (92.1)	1.75 (44.5)	4.2 (1.9)
YPW3021318	213	213 & 227	213	30,000 (133)	18 (457)	4.13 (105)	1.75 (44.5)	4.7 (2.1)
YPW3025218	252	—	—	30,000 (133)	18 (457)	4.24 (108)	2.25 (57.2)	5.0 (2.3)

NOTE: For vertical bundling yoke designs not covered above, consult factory. Add "BNK" suffix to catalog number for bolt, nut and cotter key option.

(1) Refer to Suspension Clamp section for details.

Jumper Yoke Plate

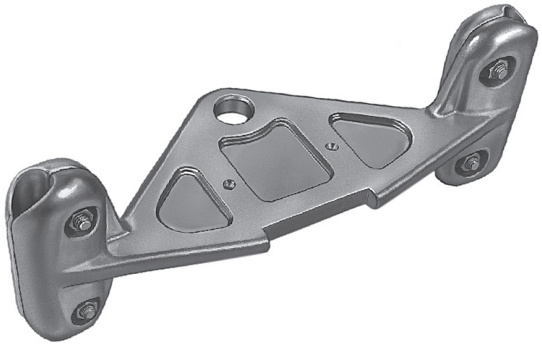
ALUMINUM

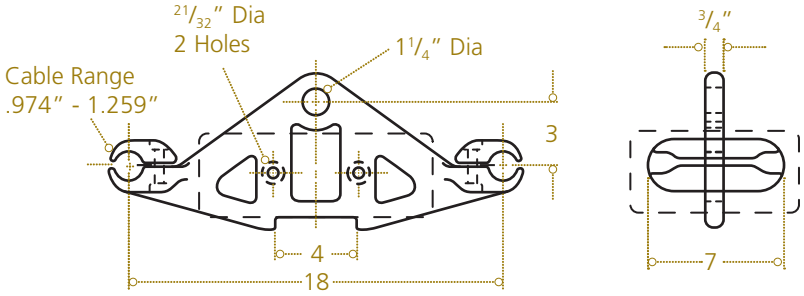
YPJ

These jumper yokes are used to bundle two, three or four conductors with a single string of insulators on a deadend tower. All jumper yokes have the provision for adding hold down weights.

Type YPJ Yoke plates may be furnished in a variety of conductor sizes and configurations.

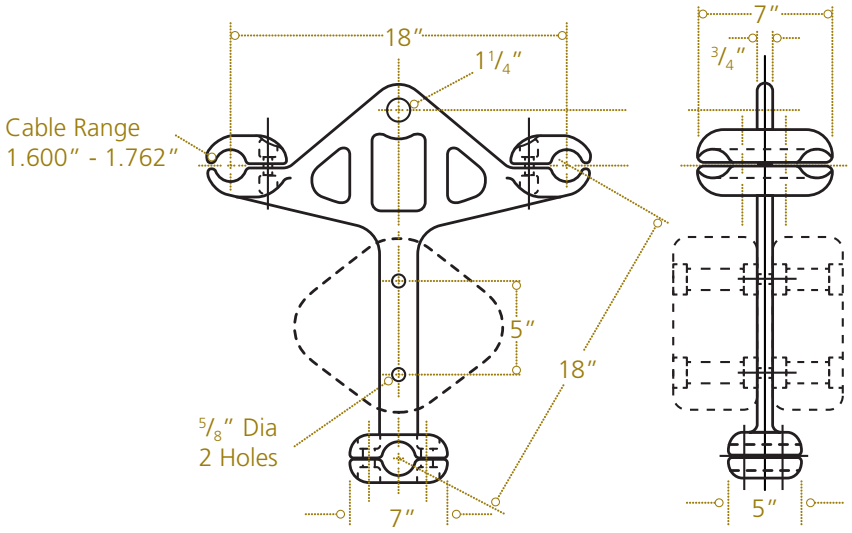
Material: Body – *aluminum alloy*





For Hold Down Weights, see next page.

Catalog Number - YPJ21018215
Ultimate Strength - 10,000 lbs. Per Insulator Attachment Hole



For Hold Down Weights, see next page.

Catalog Number - YPJ31024414
Ultimate Strength - 10,000 lb Per Insulator Attachment Hole

Hardware Fittings — *Ductile Iron*

Clevis Eye Extension Link

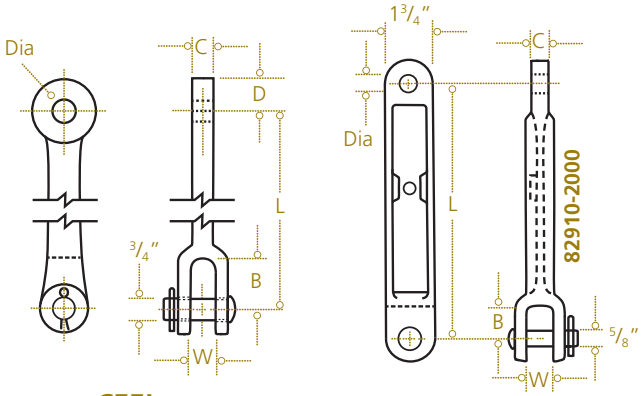
DUCTILE IRON

CEEL

Clevis eyes are used to connect clevis tongue insulators to various associated hardware and maintain conductor spacing in deadend assemblies.

Material: Body – *galvanized ductile iron*
Hardware – *galvanized steel*
Cotter Pin – *stainless steel*





CEEL

Product Data

Catalog Number	Ultimate Strength lb (kN)	Dimension Inches (mm)						Approx Wt Each lb (kg)
		L	B	W	C	D	Diameter	
829102000	20,000 (89)	10 (254)	1⅛ (28.6)	13⁄16 (20.6)	⅝ (15.9)	⅞ (22.2)	11⁄16 (17.5)	3.9 (1.77)
CEEL093065	50,000 (222)	9⅜ (238.1)	6 (152.4)	1 (25.4)	13⁄16 (20.6)	1⅜ (34.9)	13⁄16 (20.6)	6.0 (2.72)
CEEL15506	50,000 (222)	15⅝ (396.9)	2⅛ (54)	1 (25.4)	¾ (19.1)	1⅜ (34.9)	13⁄16 (20.6)	7.0 (3.18)

NOTE: Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

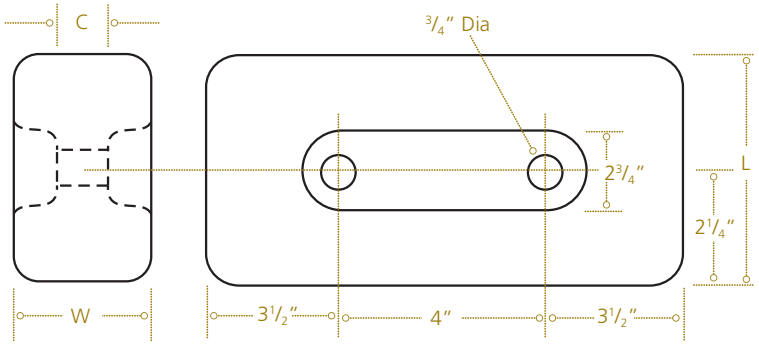
precision

Hardware Fittings — *Cast Iron*

Hold Down Weight Rectangular Configuration

CAST IRON

HDWR



Rectangular hold down weights may be attached to jumper yokes to add weight to the jumper assembly in various increments.

Material: Body – *galvanized cast iron*

Product Data

Catalog Number	Dimensions Inches (mm)			Approx Wt Each lb (kg)
	W	L	C	
HDWR50182041	2½ (63.5)	8⅝ (219.1)	⅝ (15.9)	50 (22.68)
HDWR75182045	4¾ (120.7)	6⅞ (174.6)	1 (25.4)	75 (34.02)

Hold Down Weight Square Configuration

CAST IRON

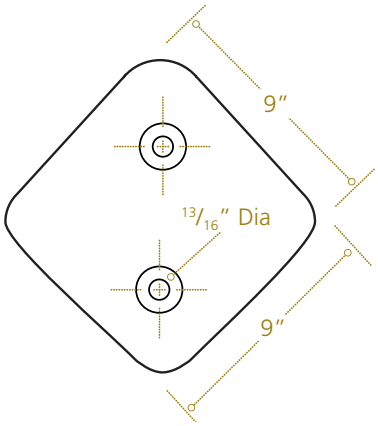
HDWS

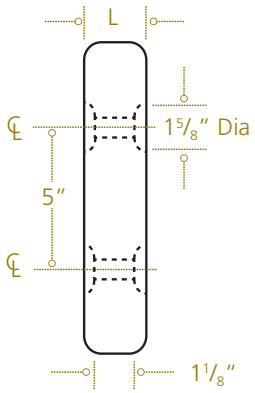
Square hold down weights may be attached to jumper yokes or three conductor T yokes to add weight to the assembly. Square hold down weights can be used in increments of 50 lb.

Material: Body – *galvanized cast iron*

Product Data

Catalog Number	Dimension Inches	Wt Each lb (kg)
	L	
HDWS5023648	2⅝ (66.7)	50 (22.68)



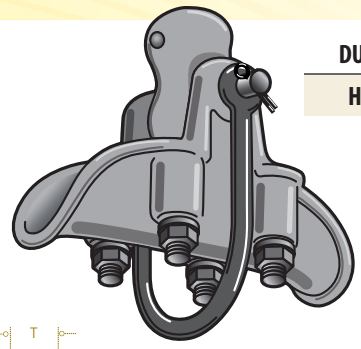


Hardware Fittings — *Ductile/Steel*

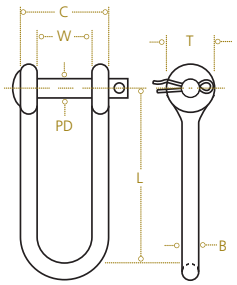
Hold Down Shackle

Hold down shackles are attached to suspension clamps to provide an attachment point to hook bolt or eye bolt. The HDWC type circular hold down weights can be attached in the desired increments to provide a means of controlling conductor position by preventing excessive uplift and sway.

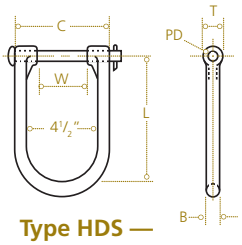
Material: Body – *ductile iron or forged steel*
Clevis pin – *galvanized steel*
Cotter pin – *stainless steel*



DUCTILE /STEEL
HDS/880/900



Type 8000 — Forged Steel



Type HDS — Ductile Iron

Product Data

Catalog Number		Ultimate Strength lb (kN)	Dimensions Inches (mm)						
With Clevis Pin and Cotter Key	With Bolt, Nut and Cotter Key		B	C	L	T	W	PD	Approx Wt Each lb (kg)
880152000	900112000	10,000 (44)	½ (12.7)	3⅞ (98.4)	5 1⁄16 (128)	1¼ (31.8)	2⅞ (73)	⅝ (15.9)	1.3 (.59)
HDS1024675	HDS1024675BNK	10,000 (44)	11⁄16 (17.5)	5 5⁄16 (134)	7⅛ (181)	1⅜ (34.9)	3⅛ (79.5)	⅝ (15.9)	3.10 (1.41)
880162000	900122000	10,000 (44)	½ (12.7)	4¼ (108)	6 (152)	1¼ (31.8)	3¼ (82.6)	⅝ (15.9)	1.4 (0.64)
880172000	900132000	10,000 (44)	½ (12.7)	4⅝ (117)	5⅞ (149)	1¼ (31.8)	3⅝ (92.1)	⅝ (15.9)	1.4 (0.64)
880182000	900142000	10,000 (44)	½ (12.7)	5⅛ (130)	5¾ (146)	1¼ (31.8)	4⅛ (105)	⅝ (15.9)	1.4 (0.64)
880192000	900152000	10,000 (44)	½ (12.7)	5½ (140)	6 (152)	1¼ (31.8)	4½ (114)	⅝ (15.9)	1.5 (0.68)

Product Data

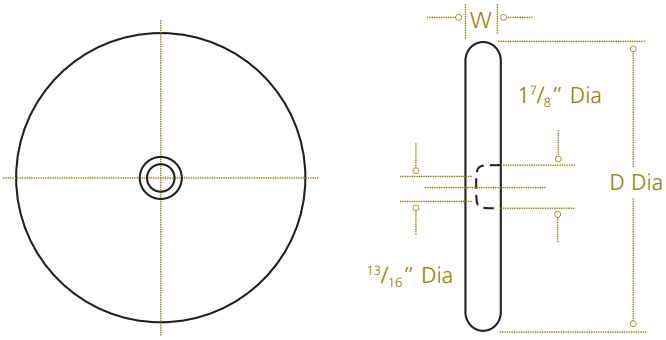
Suspension Clamp[1] Catalog Number Series/Size			Recommended Hold Down Shackle	
HAS	CFS	CFSHT	With Clevis Pin and Cotter Key	With Bolt, Nut and Cotter Key
85 TO 162	118 to 147	—	880152000	900112000
104 TO 182	118 to162	120	HDS1024675	HDS1024675BNK
118 TO 204	139 to 204	120 TO 139	880162000	900122000
139 TO 227	147 to 182	139 TO 182	880172000	900132000
204 TO 252	182 to 227	182 TO 213	880182000	900142000
—	—	252	880192000	900152000

(1) See Suspension Clamp section, pages B2-B5.

Hold Down Weight Circular Configuration

CAST IRON

HDWC



Circular hold down weights are suspended below a clamp and used to add weight to a jumper or suspension assembly in 50 lb increments.

Material: Body – *galvanized cast iron*

Product Data

Catalog Number	Dimensions Inches (mm)		Approx Wt Each lb (kg)
	W	D	
HDWC5023868	1¾ (44.5)	12 (304)	50 (22.68)

Hook Bolt

STEEL

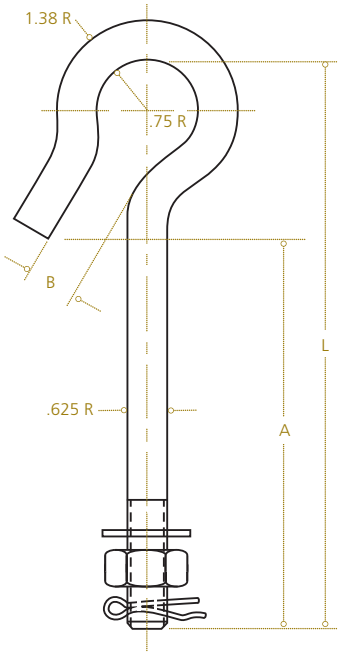
HDWH

Material: Body – g*alvanized steel*

Product Data

Catalog Number	Dimensions Inches (mm)			Maximum Number of Catalog Number HDWC-5023868 Weights
	A	B	L	
HDWH502	6 (152)	0.75 (19.1)	9.00 (229)	2
HDWH503	7.5 (191)	0.75 (19.1)	10.50 (267)	3
HDWH504	9 (229)	1 (25.4)	12.00 (305)	4
HDWH505	11 (279)	0.75 (19.1)	14.00 (356)	5
HDWH506	12 (305)	1 (25.4)	15.00 (381)	6
HDWH507	14 (356)	0.75 (19.1)	17.00 (432)	7
HDWH508	15.75 (400)	1 (25.4)	18.75 (476)	8

NOTE: Contact factory for equivalend length eye bolts.



Hardware Fittings — *Steel*

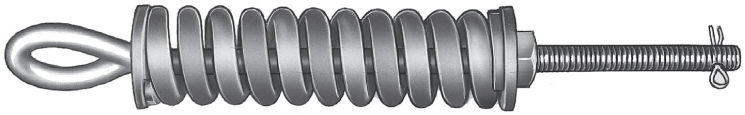
Spring Bolt

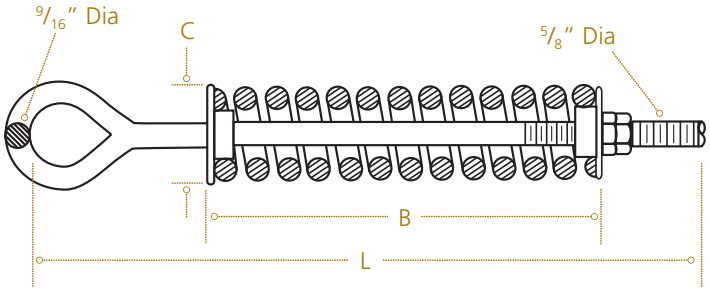
STEEL

SBA

Spring bolts are typically used to maintain controlled tension within spans of substation strain bus. Associated hardware can be used to connect the assembly to the insulation string. Spring bolt pressure is maintained between bearing plate near eye-end of bolt and structural steel at insulated end of strain bus.

Material: Spring – *galvanized steel*
Eyebolt – *galvanized steel*
Bearing Plate – *galvanized ductile iron*
Nuts – *galvanized steel*
Cotter Pin – *stainless steel*



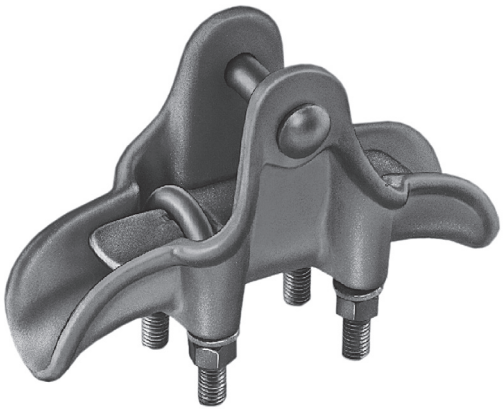


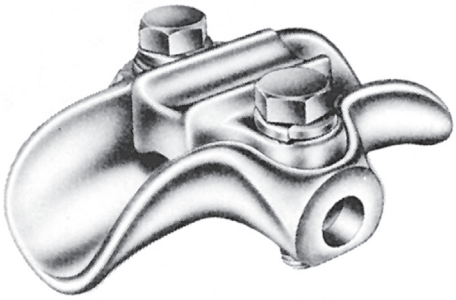
Product Data

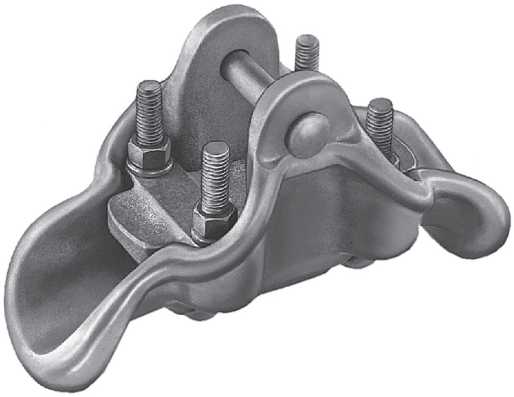
Catalog Number	Dimensions Inches (mm)			Tension Range lb	Deflection Rate lb per in
	L	B	C		
SBA5831725	17¼ (438.2)	9 (228.6)	2½ (63.5)	0-3000	1500
SBA5861725	17¼ (438.2)	11¼ (285.8)	3¾ (95.3)	0-6000	3000
SBA5862475	24¾ (628.7)	11¼ (285.8)	3¾ (95.3)	0-6000	3000

NOTE: Contact factory for other lengths and variations.

Suspension Clamps









performance

Suspension Clamps Index

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HCSA (EHV) ..... Helical Cushion Suspension Assembly (EHV) B-26

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Helical Cushion Suspension Assembly B-31

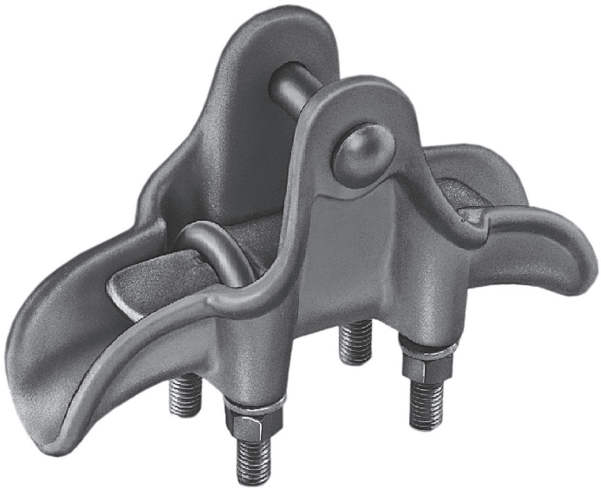
Aluminum Clamp

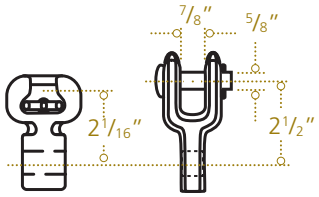
ALUMINUM

HAS

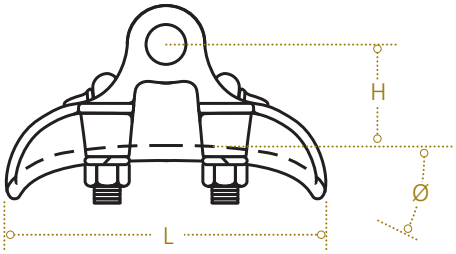
For standard voltage application with all aluminum, ACSR, or aluminum alloy conductor. See Catalog Reference section for maximum conductor temperature guidelines.

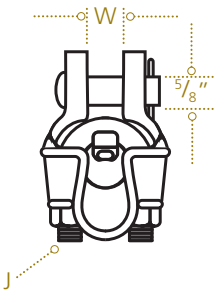
Material: Body and Keeper – *aluminum alloy*
Hardware – *galvanized steel*
Socket and Clevis – *galvanized ductile iron*
Cotter Pin – *stainless steel*





Socket Type SA **Clevis Type CA**





Suspension Clamps — *Aluminum*

Product Data

Catalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Max Take-Off Angle	Dimensions Inches (mm)				Approx Wt Each lb (kg)
	Type	Cat No				L	W	H	J	
HAS62N HAS62S HAS62C	None Socket Clevis	— SA04 CA04	.20-.62 (5.08-15.75)	17,000 (76)	30°	6¾ (171.45)	29/32 (23.02)	2 9/32 (57.94)	½ (12.70)	1.9 (.86) 3.2 (1.45) 3.5 (1.59)
HAS85N HAS85S HAS85C	None Socket Clevis	— SA06 CA06	.40-.85 (10.16-21.59)	18,000 (80)	30°	7½ (190.50)	15/16 (23.81)	2 9/16 (65.09)	½ (12.70)	2.1 (.95) 3.4 (1.54) 3.8 (1.72)
HAS104N HAS104S HAS104C	None Socket Clevis	— SA10 CA101	.50-1.04 (12.70-26.42)	25,000 (111)	30°	8⅛ (206.38)	1 5/32 (29.37)	2¾ (69.85)	½ (12.70)	2.5 (1.13) 3.9 (1.77) 4.2 (1.91)
HAS118N HAS118S HAS118C	None Socket Clevis	— SA10 CA101	.70-1.18 (17.78-29.97)	25,000 (111)	22.5°	8 (203.20)	1 11/32 (34.13)	2¾ (69.85)	½ (12.70)	2.8 (1.27) 4.2 (1.91) 4.5 (2.04)
HAS139N HAS139S HAS139C	None Socket Clevis	— SA13 CA13	.90-1.39 (22.86-35.31)	25,000 (111)	22.5°	8⅞ (225.43)	1 17/32 (38.89)	3 (76.20)	½ (12.70)	3.2 (1.45) 4.9 (2.22) 5.0 (2.27)
HAS147N HAS147S HAS147C	None Socket Clevis	— SA13 CA13	1.00-1.47 (25.40-37.34)	25,000 (111)	22.5°	9 3/16 (233.36)	1 9/16 (39.69)	3⅛ (79.38)	½ (12.70)	3.5 (1.59) 5.2 (2.36) 5.3 (2.40)
HAS162N HAS162S HAS162C	None Socket Clevis	— SA13 CA13	1.10-1.62 (27.94-41.15)	25,000 (111)	22.5°	9½ (241.30)	1 13/16 (46.04)	3 5/64 (78.18)	½ (12.70)	3.8 (1.72) 5.5 (2.49) 5.6 (2.54)
HAS182N HAS182S HAS182C	None Socket Clevis	— SA16 CA16	1.25-1.82 (31.75-46.23)	25,000 (111)	25°	10 (254)	1 15/16 (49.21)	3⅜ (85.73)	½ (12.70)	5.0 (2.27) 6.8 (3.08) 7.0 (3.18)
HAS204N HAS204S HAS204C	None Socket Clevis	— SA16 CA16	1.40-2.04 (35.56-51.82)	25,000 (111)	20.5°	10½ (266.70)	2 11/64 (55.17)	3 17/32 (89.69)	½ (12.70)	4.9 (2.22) 6.7 (3.04) 6.9 (3.13)
HAS213N HAS213S HAS213C	None Socket Clevis	— SA16 CA16	1.40-2.13 (35.56-54.10)	25,000 (111)	22°	10½ (266.70)	2¼ (57.15)	3⅝ (92.08)	⅝ (15.88)	6.0(2.72) 7.8(3.54) 8.0(3.63)
HAS252N HAS252S HAS252C	None Socket Clevis	SA22 CA22	2.00-2.52 (50.80-64.01)	30,000 (133) 30,000 (133) 25,000 (111)	17.5°	12 (304.80)	2 11/16 (68.26)	4¼ (107.95)	⅝ (15.88)	9.0 (4.08) 10.8 (4.90) 11.3 (5.13)

NOTE: Recommended torque on U-bolts: ½" — 480 in-lb ⅝" — 720 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

Suspension Clamps — *Aluminum*

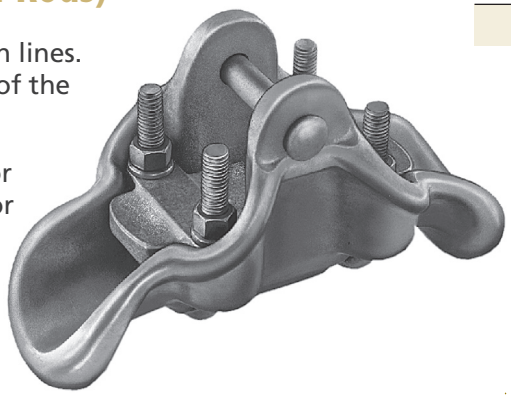
Corona Free Clamp (For Use with Armor Rods)

ALUMINUM

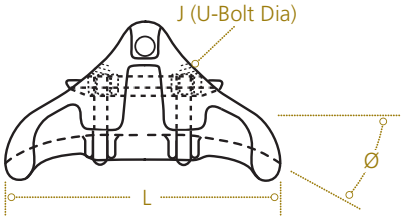
CFS

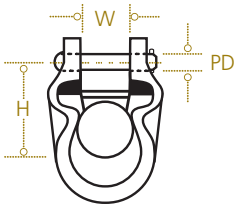
Designed for use on extra-high voltage transmission lines. Corona and RIV are controlled through the design of the clamp, thus eliminating the need for control rings.

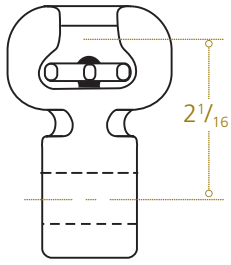
Type CFS is recommended for all aluminum, ACSR or aluminum alloy conductors with straight, tapered or formed armor rods. See Catalog Reference section for maximum conductor temperature guidelines.



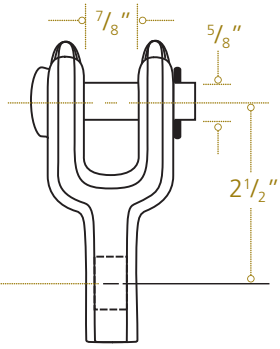
Material: Body and Keeper – *aluminum alloy*
Hardware – *galvanized steel*
Socket and Clevis – *galvanized ductile iron*
Cotter Pin – *stainless steel*
Grommet – *neoprene*







Socket Type SA



Clevis Type CA

Product Data

Catalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Max Take-Off Angle[1]	Dimensions Inches (mm)					Approx Wt Each lb (kg)
	Type	Cat No				L	W	H	J	PD	
CFS182N CFS182S CFS182C	None Socket Clevis	— SA16 CA16	1.55-1.82 (39.4-46.2)	25,000 (111)	17 ½°	10 (254)	2 1/16 (52.4)	3 1/4 (82.5)	½ (12.7)	5/8 (15.9)	4.5 (2.04) 6.3 (2.86) 6.3 (2.86)
CFS204N CFS204S CFS204C	None Socket Clevis	— SA16 CA16	1.73-2.04 (43.94-51.82)	25,000 (111)	17 ½°	10½ (266)	2 7/32 (56.4)	3½ (88.9)	½ (12.7)	5/8 (15.9)	5.0 (2.27) 6.8 (3.08) 6.8 (3.08)
CFS213N CFS213S CFS213C	None Socket Clevis	— SA16 CA16	1.80-2.13 (45.72-54.10)	25,000 (111)	17 ½°	11 (279.40)	2 5/16 (58.74)	3 5/8 (92.08)	5/8 (15.9)	5/8 (15.9)	6.2 (2.81) 8.0 (3.63) 8.0 (3.63)
CFS252N CFS252S CFS252C	None Socket Clevis	— SA22 CA22	2.14-2.52 (54.36-64.01)	30,000 (133) 30,000 (133) 25,000 (111)	20°	12 (305)	2 11/16 (68.26)	4½ (114.3)	5/8 (15.9)	5/8 (15.9)	6.2 (2.81) 8.0 (3.63) 8.0 (3.63)
CFS280N CFS280S CFS280C	None Socket Clevis	— SA2613 CA2413	2.29-2.80 (58.17-71.12)	36,000 (160) 30,000 (133) 25,000 (111)	20°	14 (355)	3 (76.2)	5 1/32 (127)	5/8 (15.9)	¾ (19.1)	11.4 (5.17) 14.3 (6.46) 14.4 (6.51)

NOTE: Recommended torque on U-bolts: ½" — 480 in-lb, 5/8" — 720 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

(1) For larger angles, a special corona free angle clamp is available. For information on special clamps, contact factory.

Suspension Clamps — *Aluminum*

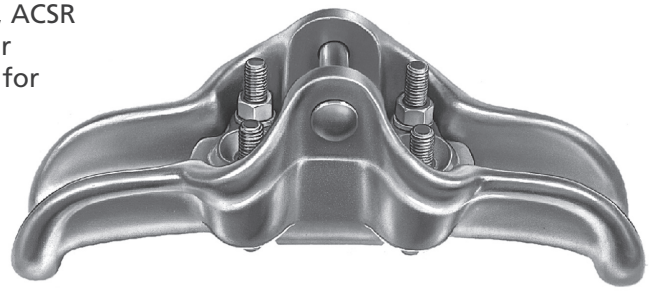
Corona Free Clamp (For Use without Armor Rods)

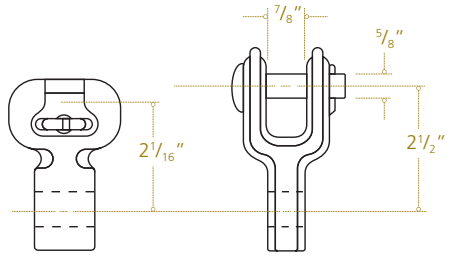
ALUMINUM
CFS (LONG)

Designed for use on extra-high voltage transmission lines. Corona and RIV are controlled through the design of the clamp, thus eliminating the need for control rings.

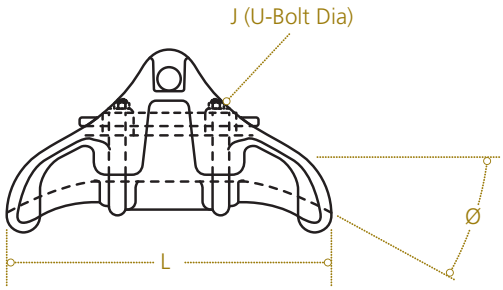
Type CFS (Long) is recommended for all aluminum, ACSR or aluminum alloy conductor. Maximum conductor temperature 130 C. See Catalog Reference section for maximum conductor temperature guidelines.

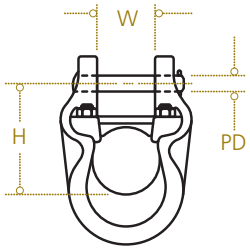
Material: Body and Keeper – *aluminum alloy*
Hardware – *galvanized steel*
Socket and Clevis – *galvanized ductile iron*
Cotter Pin – *stainless steel*
Grommet – *neoprene*





Socket Type SA **Clevis Type CA**





Product Data

Catalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Max Take-Off Angle(1)	Dimensions Inches (mm)					Approx Wt Each lb (kg)
	Type	Cat No				L	W	H	J	PD	
CFS11810N CFS11810S CFS11810C	None Socket Clevis	— SA10 CA101	1.0-1.20 (25.40-30.48)	25,000 (111)	17 ½°	10 (254)	1 5/16 (33.34)	2½ (63.50)	½ (12.70)	⅝ (15.88)	4.0 (1.81) 5.4 (2.45) 5.7 (2.59)
CFS139105N CFS139105S CFS139105C	None Socket Clevis	— SA13 CA13	1.18-1.39 (29.97-35.31)	25,000 (111)	17 ½°	10-1/2 (266.70)	1 17/32 (38.89)	2⅞ (73.03)	½ (12.70)	⅝ (15.88)	4.7 (2.13) 6.4 (2.90) 6.5 (2.94)
CFS14711N CFS14711S CFS14711C	None Socket Clevis	— SA13 CA13	1.25-1.47 (31.75-37.34)	25,000 (111)	17 ½°	11 (279.40)	1⅝ (41.28)	3 3/16 (80.96)	½ (12.70)	⅝ (15.88)	5.2 (2.36) 6.9 (3.13) 7.0 (3.17)
CFS16212N CFS16212S CFS16212C	None Socket Clevis	— SA13 CA13	1.38-1.62 (35.05-41.15)	25,000 (111)	17 ½°	12 (304.80)	1¾ (44.45)	3¼ (82.55)	½ (12.70)	⅝ (15.88)	5.5 (2.49) 7.2 (3.27) 7.3 (3.31)
CFS18214N CFS18214S CFS18214C	None Socket Clevis	— SA16 CA16	1.55-1.82 (39.37-46.23)	25,000 (111)	17 ½°	14 (355.60)	1 31/32 (50.01)	3¼ (82.55)	½ (12.70)	⅝ (15.88)	6.5 (2.95) 8.3 (3.76) 8.5 (3.86)

NOTE: Recommended torque on U-bolts; ½" — 480 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

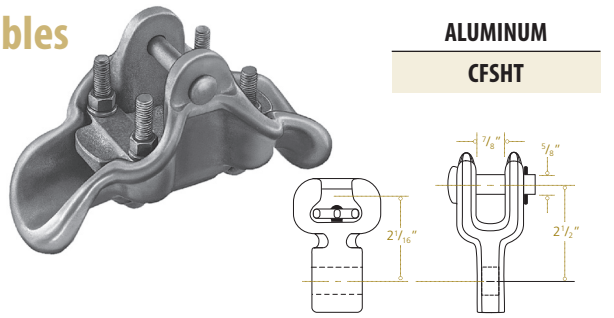
(1) For larger angles a special corona free angle clamp is available. For information on special clamps, contact factory.

Suspension Clamps — *Aluminum*

Corona Free Clamp for High Temperature Cables (For Use with Armor Rods)

ALUMINUM

CFSHT

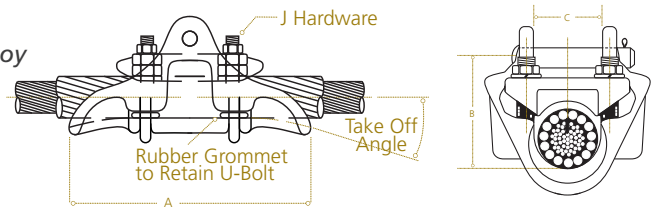


Socket Type SA Socket Type CA

Designed for use on extra-high voltage transmission lines. Corona and RIV are controlled through the design of the clamp, thus eliminating the need for control rings.

Type CFSHT is designed for use on conductors operating at continuous temperatures up to 250° C. Armor rods or line guards required on conductors with continuous temperatures exceeding 200° C.

Material: Clamp Body – *high-temperature aluminum alloy*
Keeper – *aluminum alloy*
Hardware – *galvanized steel*
Socket and Clevis – *galvanized ductile iron*
Cotter Pin – *stainless steel*
Grommet – *neoprene*



Product Data

Catalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Strength lb (kN)	Max Take-Off Angle[1]	Dimensions Inches (mm)					Approx Wt Each lb (kg)
	Type	Cat No				A	B	C	PD	J	
CFSHT120N	None	—	0.90-1.22 (22.86-30.99)	25,000 (111)	17.5°	9.15 (232.4)	2.52 (64.0)	1.42 (36.07)	.62 (15.88)	.50 (12.70)	5.0 (2.27)
CFSHT120S	Socket	SA10		25,000 (111)							7.1 (3.22)
CFSHT120C	Clevis	CA101		25,000 (111)							7.1 (3.22)
CFSHT139N	None	—	1.18-1.39 (29.97-35.31)	25,000 (111)	17.5°	9.45 (240.03)	3.00 (76.2)	1.63 (41.40)	.62 (15.88)	.50 (12.70)	5.6 (2.54)
CFSHT139S	Socket	SA13		25,000 (111)							7.6 (3.44)
CFSHT139C	Clevis	CA13		25,000 (111)							7.6 (3.44)
CFSHT182N	None	—	1.55-1.82 (39.37-46.23)	30,000 (133)	17.5°	10.19 (258.83)	3.34 (84.84)	2.03 (51.56)	.62 (15.88)	.50 (12.70)	6.9 (3.13)
CFSHT182S	Socket	SA16		30,000 (133)							9.0 (4.08)
CFSHT182C	Clevis	CA16		25,000 (111)							9.0 (4.08)
CFSHT213N	None	—	1.80-2.13 (45.72-54.10)	30,000 (133)	17.5°	11.75 (298.45)	3.62 (91.95)	2.39 (60.70)	.62 (15.88)	.50 (12.70)	8.9 (4.04)
CFSHT213S	Socket	SA20		30,000 (133)							10.7 (4.86)
CFSHT213C	Clevis	CA16		25,000 (111)							10.7 (4.86)
CFSHT252N	None	—	2.14-2.52 (54.36-64.01)	30,000 (133)	20°	12.75 (323.85)	4.02 (102.1)	2.79 (70.87)	.62 (15.88)	.50 (12.70)	11.0 (5.0)
CFSHT252S	Socket	SA24		30,000 (133)							12.9 (5.86)
CFSHT252C	Clevis	CA24		25,000 (111)							13.3 (6.04)

NOTE: Recommended torque on U-bolts: ½" — 480 in-lb, ⅝" — 720 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

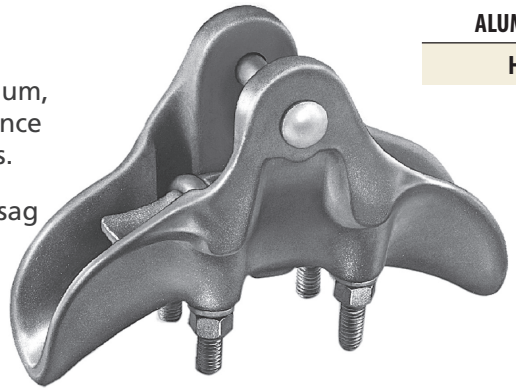
(1) For larger angles, a special corona free angle clamp is available. For information on special clamps, contact factory.

In addition to industry standard markings for connectors, CFSHT suspension clamps are permanently marked with the IEC standard symbol for hot surface, allowing construction inspectors to easily verify that the installed clamps

Suspension Clamps — *Aluminum*

Angle Clamp

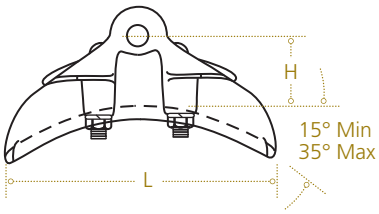
ALUMINUM
HAC



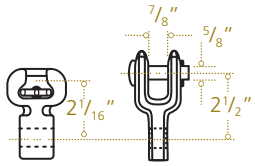
For standard voltage angle construction with all aluminum, ACSR, or aluminum alloy conductor. See Catalog Reference section for maximum conductor temperature guidelines.

Designed for use in turning angles up to 70° (including sag and turn angle).

Material: Body and Keeper – *aluminum alloy*
Hardware – *galvanized steel*
Socket and Clevis – *galvanized ductile iron*
Cotter Pin – *stainless steel*







Socket Type SA **Clevis Type CA**

Product Data

Catalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Dimensions Inches (mm)					Approx Wt Each lb (kg)
	Type	Cat No			L	W	H	J	PD	
HAC118N	None	—	1.00-1.18 (25.40-29.97)	35,000 (156)	9⅞ (250.83)	1²⁹⁄₃₂ (32.54)	2¾ (69.85)	½ (12.70)	⅝ (15.88)	3.6 (1.63)
HAC118S	Socket	SA10		30,000 (133)						5.0 (2.27)
HAC118C	Clevis	CA101		25,000 (111)						5.3 (2.40)
HAC147N	None	—	1.25-1.47 (31.75-37.34)	35,000 (156)	9¾ (247.65)	1¹¹⁄₁₆ (42.86)	3¼ (82.55)	½ (12.70)	⅝ (15.88)	4.0 (1.81)
HAC147S	Socket	SA13		30,000 (133)						5.7 (2.59)
HAC147C	Clevis	CA13		25,000 (111)						5.8 (2.63)
HAC182N	None	—	1.55-1.82 (39.37-46.23)	40,000 (178)	10⅛ (257.18)	2³²⁄₃₂ (51.59)	3½ (88.90)	½ (12.70)	¾ (19.05)	4.8 (2.18)
HAC182S	Socket	SA1613		30,000 (133)						6.6 (3.02)
HAC182C	Clevis	CA1613		25,000 (111)						6.8 (3.08)
HAC204N	None	—	1.73-2.04 (43.94-51.82)	40,000 (178)	11¼ (285.75)	2¹¹⁄₆₄ (55.17)	3½ (88.90)	½ (12.70)	¾ (19.05)	5.6 (2.54)
HAC204S	Socket	SA1613		30,000 (133)						7.4 (3.36)
HAC204C	Clevis	CA1613		25,000 (111)						7.6 (3.45)
HAC213N	None	—	1.81-2.13 (45.97-54.10)	40,000 (178)	11¼ (285.75)	2¼ (57.15)	3¾ (95.25)	⅝ (15.88)	¾ (19.05)	6.0 (2.72)
HAC213S	Socket	SA1613		30,000 (133)						7.9 (3.58)
HAC213C	Clevis	CA1613		25,000 (111)						8.0 (3.63)

NOTE: Recommended torque on U-bolts: ½" — 480 in-lb; ⅝" — 720 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

Suspension Clamps — *Aluminum*

Trunnion Clamp

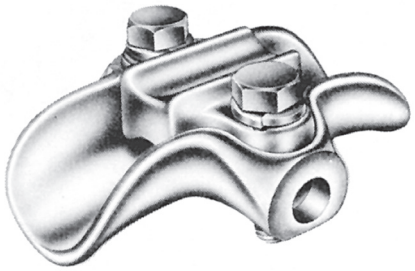
ALUMINUM

TSC

For standard voltage applications with AAC, ACSR or AAAC conductor. See Catalog Reference section for maximum conductor temperature guidelines.

Designed for use on tangent suspension spans with horizontal or vertical post insulators.

Keeper is reversible for proper fit on different size conductors.



Material: Body and Keeper – *aluminum alloy*
Hardware – *galvanized steel*
Anti-static Spring – *stainless steel*(1)

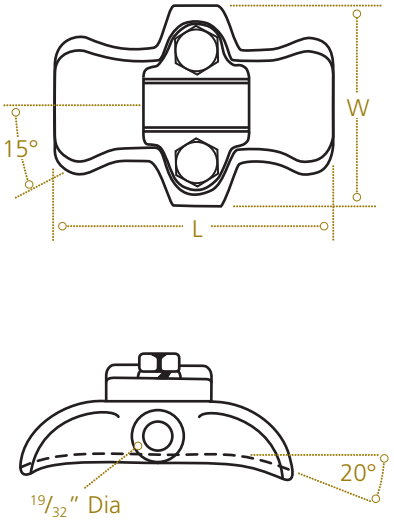


Figure 1

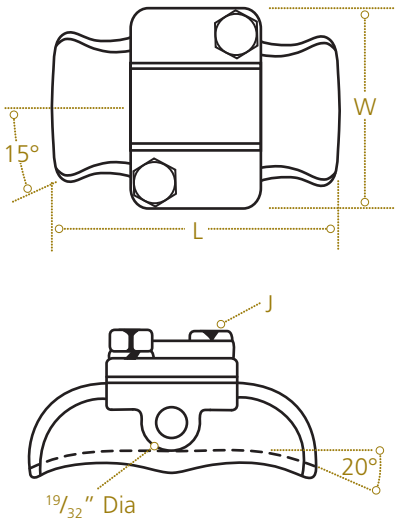


Figure 2

Product Data

Catalog Number	Figure Number	Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Dimensions Inches (mm)			Approx Wt Each lb (kg)
				L	W	J	
TSC57	1	.25-.57 (6.3-14.4)	2,800 (12)	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	.81 (.37)
TSC86	1	.35-.86 (8.8-21.8)	2,800 (12)	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	.95 (.43)
TSC106	1	.50-1.06 (12.7-26.9)	2,800 (12)	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	.98 (.44)
TSC150	1	1.00-1.50 (25.4-38.1)	2,800 (12)	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	1.09 (.49)
TSC200	2	1.50-2.00 (38.1-50.8)	2,800 (12)	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	1.33 (.60)

NOTE: Recommended torque on bolts: ½" — 300 in-lb.
(1) Anti-static spring can be supplied by adding "ARIV" to catalog number. Example, TSC57ARIV.

Trunnion Clamp for High Temperature Cables (For Use with Armor Rods)

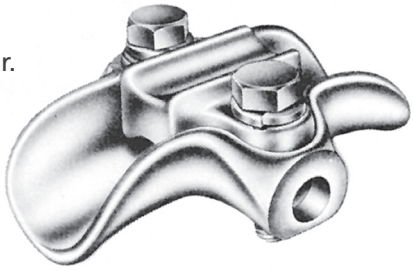
ALUMINUM
TSCHT

Type TSCHT is designed for use on conductors operating at continuous temperatures up to 250° C. Armor rods or line guards required to limit heat transfer from conductor to post insulator cap.

Also for standard voltage applications with AAC, ACSR or AAAC conductor.

Designed for use on tangent suspension spans with horizontal or vertical post insulators.

Keeper is reversible for proper fit on different size conductors.



Material: Clamp Body – *high-temperature aluminum alloy*
Keeper – *aluminum alloy*
Hardware – *galvanized steel*
Anti-static Spring – *stainless steel*(1)

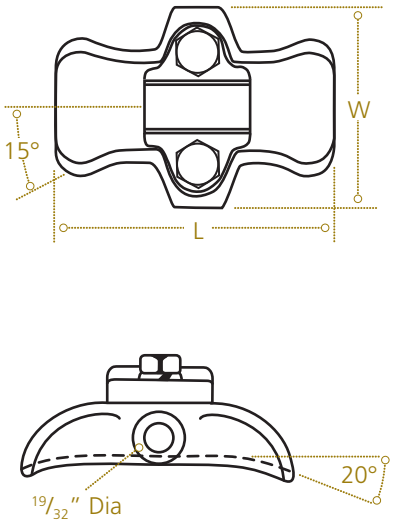


Figure 1

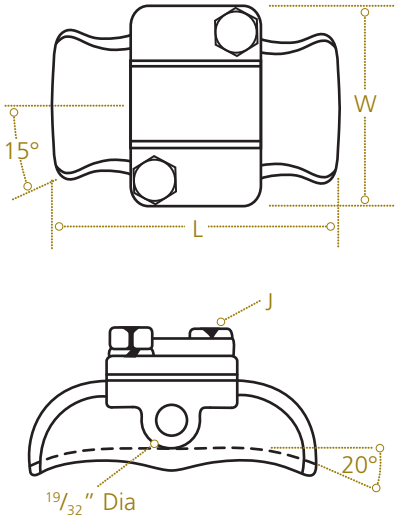


Figure 2

Product Data

Catalog Number	Figure Number	Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Dimensions Inches (mm)			Approx Wt Each lb (kg)
				L	W	J	
TSCHT150	1	1.00-1.50 (25.4-38.1)	2,800 (12)	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	1.34 (.61)
TSCHT200	2	1.50-2.00 (38.1-50.8)	2,800 (12)	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	1.54 (.70)

NOTE: Recommended torque on bolts: ½" — 300 in-lb.
(1) Anti-static spring can be supplied by adding "ARIV" to catalog number. Example, TSCHT150ARIV.

In addition to industry standard markings for connectors, TSCHT suspension clamps are permanently marked with
the IEC standard symbol for hot surface, allowing construction inspectors to easily verify that the installed

Jumper Clamps and Assemblies

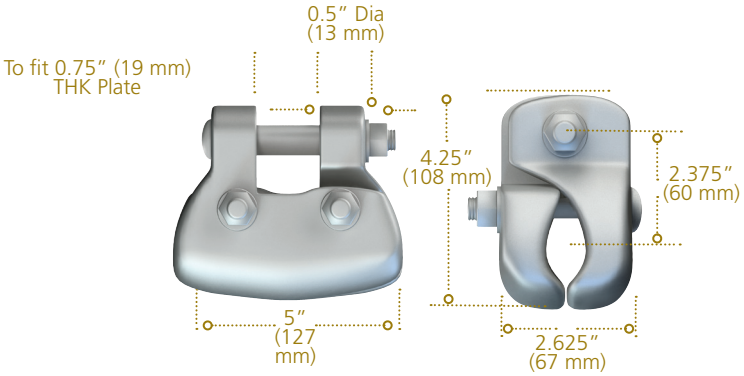


Figure 1

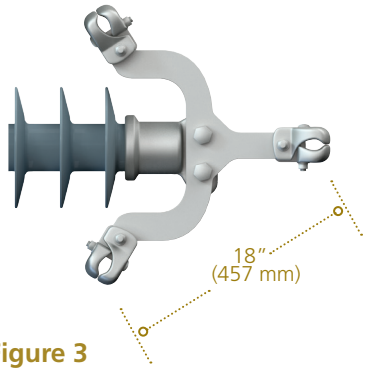


Figure 3

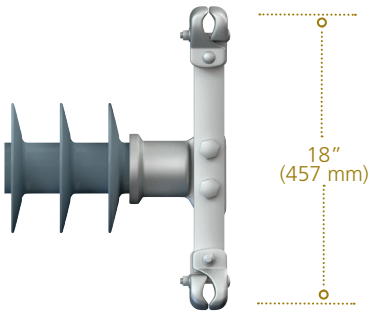


Figure 2

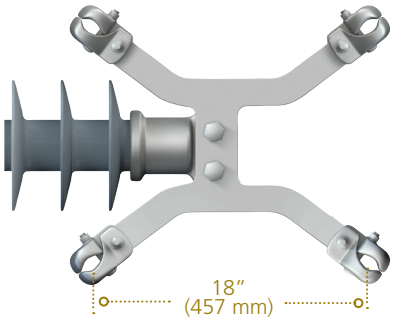


Figure 4

A practical application of Quadri*Sil® line posts is for support of jumper loops on transmission lines.

Horizontal motion of the jumper is restricted, and the factor of wind sway is eliminated. Additionally, the crossarm length may be reduced. The difference in cost of insulation is not significant, but the savings in tower cost can be attractive. Regardless of cost, the use of a jumper support improves construction.

If using a single clamp, clamp position relative to the insulator may be changed by bolting the clamp through the upper hole in the insulator end fitting.

Jumper clamps are not intended for tangent span applications.

Material: Clamps – *aluminum alloy*
Yoke and Hardware – *galvanized steel*

Product Data

Figure Number	Catalog Number	Yoke Type	Clamping Range Inches (mm)
1	976423002	None	1.00 - 1.40 (25 - 36)
1	976423003	None	1.40 - 1.60 (36 - 41)
1	600643001	None	1.60 - 2.00 (41 - 51)
2	2717243001	Dual	1.00 - 1.40 (25 - 36)
2	2717253001	Dual	1.40 - 1.60 (36 - 41)
2	2717263001	Dual	1.60 - 2.00 (41 - 51)
3	2721763001	Triple	1.00 - 1.40 (25 - 36)
3	2721773001	Triple	1.40 - 1.60 (36 - 41)
3	2721783001	Triple	1.60 - 2.00 (41 - 51)
4	2721793001	Quad	1.00 - 1.40 (25 - 36)
4	2721803001	Quad	1.40 - 1.60 (36 - 41)
4	2721813001	Quad	1.60 - 2.00 (41 - 51)

Suspension Clamps — *Aluminum*

Angle Clamp

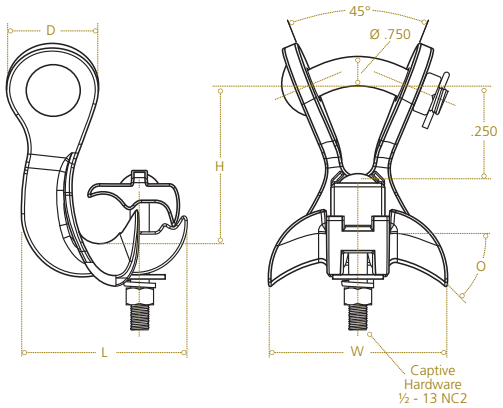
ALUMINUM

YAAC

Intended for angle construction with AAC, ACSR or AAAC conductor. See Catalog Reference section for maximum conductor temperature guidelines.

Built-in Y-Clevis Fitting allows compound horizontal and vertical angles necessary for residential and urban construction.

Material: Body and Keeper – *aluminum alloy*
Hardware – *galvanized steel*
Cotter Pin – *stainless steel*





Product Data

Catalog Number	Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Max Take-Off Angle	Dimensions Inches (mm)				Approx Wt Each lb (kg)
				D	L	W	H	
YAAC125	.50-1.25 (12.70-31.75)	12,000 (53)	45°	2.45 (62.23)	4.50 (114.3)	4.83 (122.68)	4.27 (108.46)	2.0 (.91)

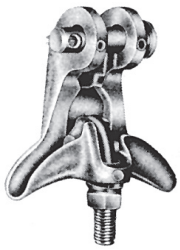
NOTE: Recommended torque on ½" clamping bolt: 300 in-lb.

Intended for angle construction with all aluminum, ACSR or aluminum alloy conductor.

ALUMINUM

AAC

Material: Body and Keeper – *356-T6 aluminum alloy*
Hardware – *galvanized steel*
Cotter Pin – #302 *stainless steel*



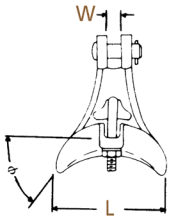
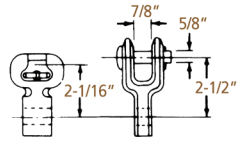
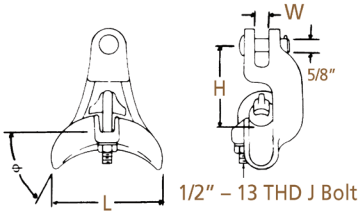


Figure 2



Socket Type SA

Clevis Type CA



1/2" – 13 THD J Bolt

Figure 1

Product Data

Catalog Number	Fig. No.	Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Max Take-Off Angle	Dimensions Inches (mm)			Approx Wt Each lb (kg)
				o	L	W	H	
AAC301	2	.198-.732 (5.03-18.59)	7,000 (31)	45°	4-1/4 (107.95)	11/16 (17.46)	2-7/8 (73.02)	1.25 (.57)
AAC302	1	.198-.732 (5.03-18.59)	7,000 (31)	45°	4-1/4 (107.95)	11/16 (17.46)	2-7/8 (73.02)	1.25 (.57)
AAC104N	1	.50-1.10 (12.70-27.94)	12,000 (53)	60°	5-1/4 (133.35)	11/16 (17.46)	4-1/8 (104.77)	2.3 (1.04)
AAC10490N	2	.50-1.10 (12.70-27.94)	12,000 (53)	60°	5-1/4 (133.35)	11/16 (17.46)	4-1/8 (104.77)	2.2 (1)

NOTES: (1) Sockets and clevises can be supplied by adding "S" or "C" to catalog number. Example, AAC10490S.
(2) Recommended torque on 1/2" J-bolts: 300 in.-lbs.

Suspension Clamps — *Bronze*

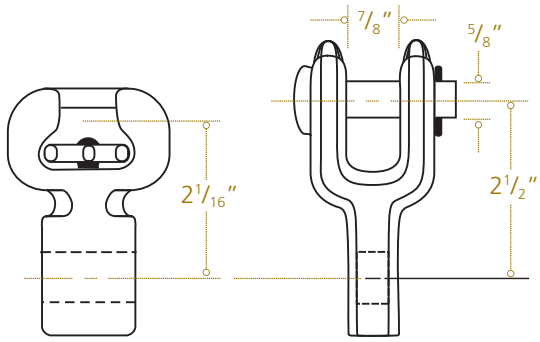
Clamp

For use with copper or Copperweld® cable.

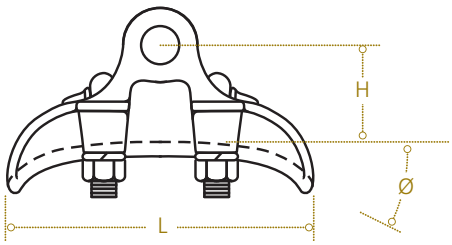
Through the use of these clamps hysteresis and eddy current power losses are reduced to a minimum. Liners are not required.

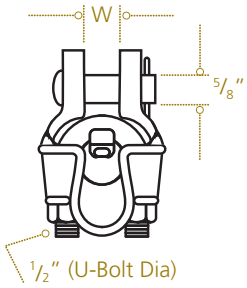
Material: Body – *high tensile bronze alloy*
Keeper – *bronze*
Hardware – *galvanized steel*(1)
Socket and Clevis – *galvanized ductile iron*
Cotter Pin – *stainless steel*





Socket Type SA Clevis Type CA





Product Data

Catalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Max Take-Off Angle	Dimensions Inches (mm)			Approx Wt Each lb (kg)
	Type	Cat No				L	W	H	
BRS60N BRS60S BRS60C	None Socket Clevis	— SA04 CA04	.20-.60 (5.08-15.24)	16,000 (71)	15°	6½ (165.10)	¾ (19.05)	2¼ (57.15)	2.9 (1.32) 4.4 (1.90) 4.5 (2.04)
BRS83N BRS83S BRS83C	None Socket Clevis	— SA06 CA06	.40-.83 (10.16-21.08)	18,000 (80)	15°	7¼ (184.15)	31/32 (24.6)	2⅜ (60.33)	3.7 (1.68) 5.0 (2.27) 5.4 (2.45)
BRS100N BRS100S BRS100C	None Socket Clevis	— SA07 CA101	.625-1.00 (15.88-25.40)	22,000 (98)	15°	8 (203.20)	1⅛ (28.58)	2½ (63.50)	4.5 (2.04) 5.9 (2.68) 6.3 (2.81)
BRS118N BRS118S BRS118C	None Socket Clevis	— SA11 CA101	.70-1.18 (17.78-29.97)	25,000 (111)	20°	8 (203.20)	1 9/32 (32.55)	2½ (63.50)	4.9 (2.22)

NOTE: Recommended torque on U-bolts: ½" — 480 in-lb.
(1) Bronze U-bolts, nuts and washers can be furnished by adding suffix "ED" to catalog number. Example, BRS60NED.

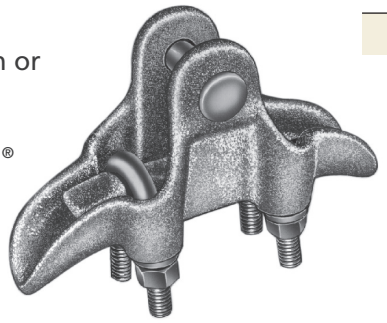
Suspension Clamps — *Ductile Iron*

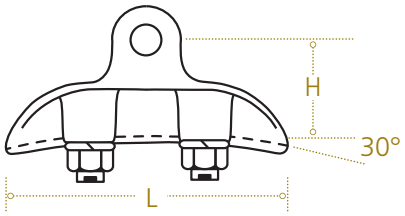
Clamp

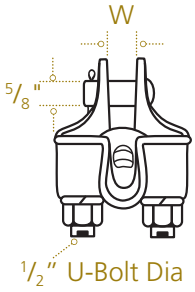
For ground wire application with galvanized steel cable with or without armor rods.

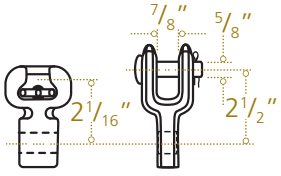
Type MS may also be used to suspend copper or Copperweld® cable. Magnetic induction heating will occur.

Material: Body and Keeper – *galvanized ductile iron*
Hardware – *galvanized steel*
Cotter Pin – *stainless steel*









Socket Type SA **Clevis Type CA**

Clamp Recommendations for Galvanized Overhead Ground Wire

Steel Cable Size	Bare Conductor		Formed Armor Rods	
	Clamp Cat No	Diameter Inches (mm)	Clamp Cat No	Diameter Inches (mm)
¼"-7 str	MS46	.240 (6.10)	MS46	.412 (10.46)
5/16"-7 str	MS46	.312 (7.92)	MS60	.512 (13.00)
⅜"-7 str	MS46	.360 (9.14)	MS60	.560 (14.22)
7/16"-7 str	MS46	.435 (11.05)	MS82	.673 (17.09)
½"-7 str	MS60	.495 (12.57)	MS82	.771 (19.58)
⅝"-7 str	MS70	.621 (15.77)	—	—

Product Data

Catalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Dimensions Inches (mm)			Approx Wt Each lb (kg)
	Type	Cat No			L	H	W	
MS46N MS46S MS46C	None Socket Clevis	— SA04 CA04	.20-.46 (5.08-11.68)	16,000 (71)	5⅝ (142.88)	2 (50.8)	⅞ (22.2)	2.15 (.98) 3.4 (1.54) 3.8 (1.73)
MS60N MS60S MS60C	None Socket Clevis	— SA04 CA04	.20-.60 (5.08-15.24)	16,000 (71)	6 7/16 (163.51)	2 (50.8)	⅞ (22.2)	2.65 (1.20) 3.9 (1.77) 4.3 (1.95)
MS70N MS70S MS70C	None Socket Clevis	— SA05 CA05	.30-.70 (7.62-17.78)	18,000 (80)	6⅜ (161.93)	2 (50.8)	15/16 (23.8)	2.90 (1.32) 4.2 (1.91) 4.6 (2.09)
MS82N MS82S MS82C	None Socket Clevis	— SA06 CA06	.40-.82 (10.16-20.83)	18,000 (80)	7½ (190.50)	2⅜ (60.33)	15/16 (23.8)	3.25 (1.47) 4.7 (2.13) 5.0 (2.27)
MS104N MS104S MS104C	None Socket Clevis	— SA07 CA06	.50-1.04 (12.70-26.42)	25,000 (111)	8 (203.2)	2¾ (69.9)	1⅛ (28.6)	5.70 (2.59) 7.1 (3.22) 7.4 (3.36)

NOTE: Recommended torque on U-bolts: ½" — 480 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number

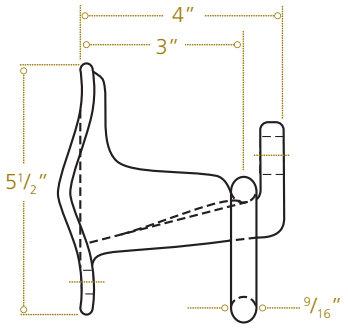
Suspension Clamps — *Ductile Iron*

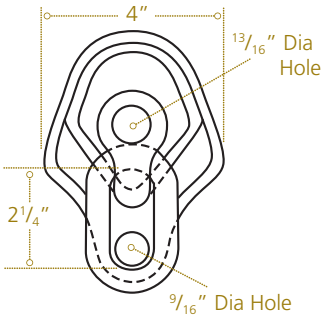
Ground Wire Support Bracket

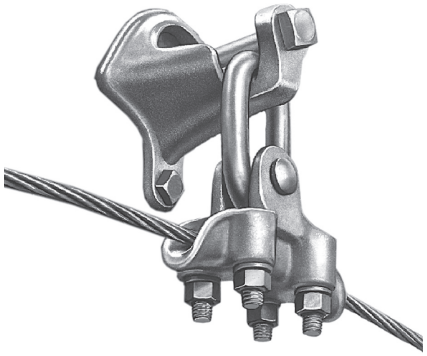
DUCTILE IRON
GWB1S

Designed to be used with most types of suspension clamps (aluminum or ferrous). May be mounted with through bolt and lag screw.

Material: Body – *galvanized ductile iron*
Link – *galvanized forged steel*







Product Data

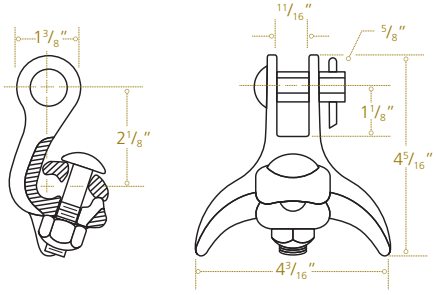
Catalog Number	Mounting Hardware Max Diameter Inches (mm)		Mounting Bolt Spacing Inches (mm)	Ultimate Strength Vertical lb (kN)	Approx Weight Each lb (kg)
	Bolt	Lag Screws			
GWB1S	¾ (19.05)	½ (12.70)	3⅝6 (84.14)	5,000 (22)	2.6 (1.18)

Angle Clamp

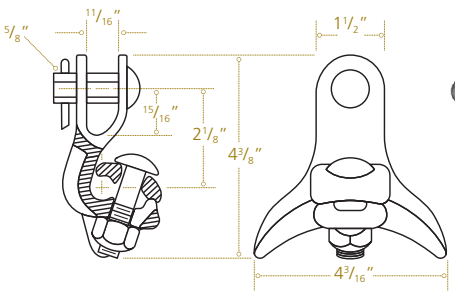
DUCTILE IRON
814/828

Intended for use in angle construction with galvanized steel overhead ground wire or copper and Copperweld® phase wire. Magnetic induction heating will occur.

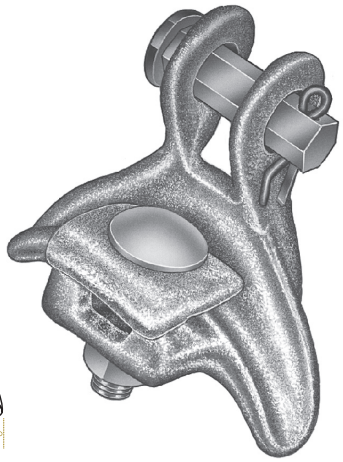
Material: Body and Keeper – *galvanized ductile iron*
Hardware – *galvanized steel*
Cotter Pin – *stainless steel*
Grommet – *neoprene*



Catalog Number 82860



Catalog Number 81460



Product Data

Catalog Number	Clamping Range Inches (mm)		Ultimate Body Strength lb (kN)	Max Take-Off Angle	Approx Wt Each lb (kg)
	Small Groove	Large Groove			
814602000 828602000	.162-.25 (4.11-6.35)	.25-.60 (6.35-15.24)	7,000 (31)	60°	1.5 (.68)

NOTE: Recommended torque on ½″ bolt — 480 in-lb.

Suspension Clamps — *Ductile Iron*

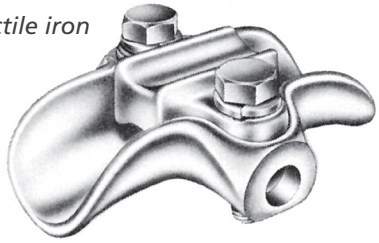
Trunnion Clamp

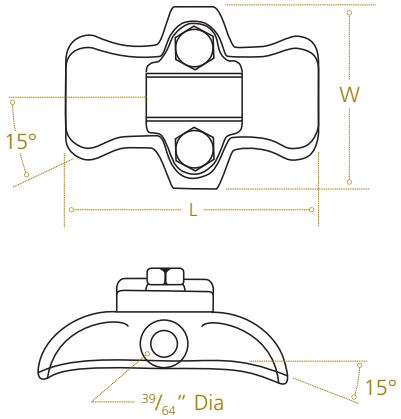
DUCTILE IRON
270

For ground wire applications with galvanized steel cable. Designed for use on tangent suspension spans with horizontal or vertical post insulators.

Keeper is reversible for proper fit on different size conductors.

Material: Body and Keeper – *galvanized ductile iron*
Hardware – *galvanized steel*
Anti-Static Spring – *stainless steel*





Product Data

Catalog Number	Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Dimensions Inches (mm)			Approx Weight Each lb (kg)
			L	W	J	
2706503001	.25-.56 (6.13-14.2)	2,800 (12)	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	2.50 (1.13)
2706513001	.50-1.06 (12.7-26.9)	2,800 (12)	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	2.75 (1.24)
2706523001	1.06-1.50 (26.9-38.1)	2,800 (12)	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	3.00 (1.36)

NOTE: Recommended torque on bolts: ½" — 480 in-lb. Anti-static spring can be supplied by adding "ARIV" to catalog number. Example, 2706513001ARIV.

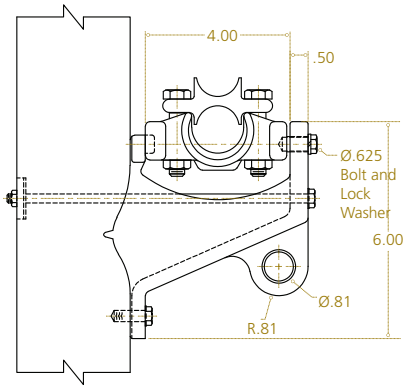
Ground Wire Support Bracket

DUCTILE IRON
GWB1R

Designed to accommodate most (aluminum or ferrous) trunnion type clamps. May be mounted with one bolt and lag screw or two bolts.

Material: Body – *galvanized ductile iron*



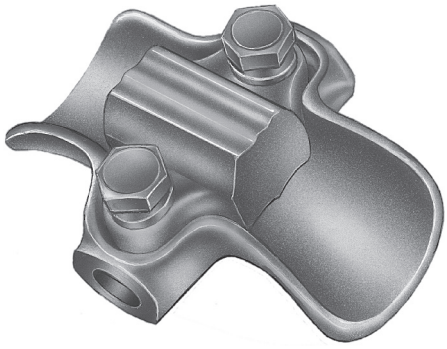


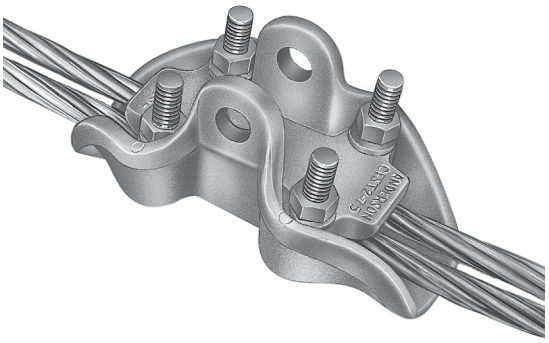
Product Data

Catalog Number	Mounting Hardware Maximum Diameter Inches (mm)		Mounting Bolt Spacing Inches (mm)	Ultimate Strength Vertical lb (kN)	Approx Wt Each lb (kg)
	Bolt	Lag Screw			
GWB1R	⅝ (15.88)	½ (12.70)	3¼ (82.55)	5,000 (22)	3.1 (1.40)

NOTE: Mounting hardware by others.

Suspension and Stirrup Clamps — *For T2 Conductors*





T2 is the designation for a type of conductor developed in the mid-1960s by Kaiser Aluminum Company. The "T" is for "twisted" and the "2" indicates two wires twisted together. T2 is actually two regular round conductors of any type (ACSR, AAC, ACAR, AAAC, etc.) twisted around each other at 9-foot intervals. The main purpose of the twisted design is to prevent galloping by constantly varying the cable diameter face. This wind-induced galloping phenomena occurs primarily in the Midwestern U.S.

Some utilities prefer suspension and strain clamps with "double groove" clamping, while others find that single-groove standard clamps, properly sized and tested, perform adequately on T2.

Anderson™ offers both single and double groove clamps. In the early days of T2, filler rods were used and designed for round conductors. After years of field service and testing, Anderson believes filler rods are no longer necessary, and we do not recommend them.

Another clamp approach is to separate the two round conductors at the clamping point and use two separate single-groove clamps attached to a small yoke plate.

Anderson can supply your T2 clamp needs regardless of your construction preference.

safety

Product Data

Suspension and Stirrup Clamps

Recommended Application Chart of Anderson™ Clamps for T2 Conductor

Conductor Data				Recommended Clamps						
Code Word	Conductor Size (Qty) AWG	Dual Conductors Outside Dimensions Inches	T2 Conductor Ultimate Strength lb	 Aluminum Suspension Clamp Double Groove Keeper	 345 kV Corona Free Aluminum Suspension Clamp Double Groove	 Aluminum Trunnion Suspension Clamp Double Groove Keeper	 Ductile Iron Trunnion Suspension Clamp with Aluminum Double Groove Keeper	 Aluminum Suspension Clamp Single Groove	 Aluminum Trunnion Suspension Clamp Single Groove	 Aluminum Mechanical Stirrup Single Groove
T-2 Iris	2-7 str AAC[2]	.292 x .584	2532	—	—	—	—	HAS85	TSC57[1]	AHLS024019-E
T-2 Sparrow	2-6/1 ACSR[2]	.316 x .682	5580	—	—	TSCT2150	TSCDT2150	HAS85	TSC86[2]	AHLS024019-E
T-2 Raven	1/0-6/1 ACSR[2]	.398 x .796	8560	HAST2118	—	TSCT2150	TSCDT2150	HAS104	TSC86[1]	AHLS397021-E
T-2 Quail	2/0-6/1 ACSR[2]	.447 x .894	10,690	HAST2118	—	TSCT2150	TSCDT2150	HAS104	TSC106T2[1]	AHLS397021E
T-2 Pigeon	3/0-6/1 ACSR[2]	.502 x 1.004	13,350	HAST2118	—	TSCT2150	TSCDT2150	HAS118	TSC150T2[2]	AHLS954022E
T-2 Penquin	4/0-6/1 ACSR[2]	.562 x 1.126	16,840	HAST2139	—	TSCT2150	TSCDT2150	HAS139	TSC150-T2[1]	AHLS954022-E
T-2 Partridge	266.8-26/7 ACSR[2]	.642 x 1.284	22,500	HAST2139	—	TSCT2200	TSCDT2200	HAS139	TSC150-T2[1]	—
T-2 Linnet	336.4-26/7 ACSR[2]	.721 x 1.442	28,100	HAST2182	—	TSCT2200	TSCDT2200	HAS162	TSC150-T2[1]	—
T-2 Chickadee	397.5-18/1 ACSR[2]	.743 x 1.486	20,080	HAST2182	—	TSCT2200	TSCDT2200	HAS182	—	—
T-2 Ibis	397.5-26/7 ACSR[2]	.783 x 1.566	32,380	HAST2182	CFST288	TSCT2200	TSCDT2200	HAS182	—	—
T-2 Pelican	477.0-18/1 ACSR[2]	.814 x 1.628	23,740	HAST2182	CFST288	TSCT2200	TSCDT2200	HAS182	—	—
T-2 Mistletoe	556.5-37 str AAC[2]	.858 x 1.716	19,660	HAST2204	CFST288	TSCT2200	TSCDT2200	HAS204	—	—
T-2 Hawk	477.0-26/7 ACSR[2]	.858 x 1.716	38,860	HAST2204	CFST288	TSCT2200	TSCDT2200	HAS204	—	—
T- 2 Osprey	556.5-18/1 ACSR[2]	.879 x 1.758	27,700	HAST2204	CFST288	TSCT2200	TSCDT2200	HAS204	—	—
T-2 Hen	447.0-30/7 ACSR[2]	.883 x 1.766	46,600	HAST2204	CFST288	TSCT2200	TSCDT2200	—	—	—
T-2 Parakeet	556.5-18/1 ACSR[2]	.914 x 1.828	39,700	HAST2204	CFST2130	—	—	—	—	—
T-2 Arbutus	795-37 str AºAC[2]	1.026 x 2.052	27,540	HAST2252	CFST2130	—	—	—	—	—
T-2 Dove	556.5-26/7 ACSR[2]	.927 x 1.854	44,800	HAST2204	CFST2130	—	—	HAS204	—	—
T-2 Rook	636.0-24/7 ACSR[2]	.977 x .1.954	45,200	HAST2252	CFST2130	—	—	—	—	—
T-2 Grosbeak	636.0-26/7 ACSR[2]	.990 x 1.980	50,000	HAST2252	CFST2130	—	—	HAS227	—	—
T-2 Tern	795.0-45/7 ACSR[2]	1.063 x 2.126	45,800	HAST2252	CFST2130	—	—	HAS252T2	—	—
T-2 Rail	954.0-45/7 ACSR[2]	1.165 x 2.330	53,800	HAST2252	CFST2130	—	—	HAS252T2	—	—
T-2 Bluejay	1113.0-45/7 ACSR[2]	1.259 x 2.518	61,800		CFST2130	—	—	HAS280	—	—

(1) On catalog type TSC use large side of keeper on cable specified.

(2) On catalog type TSC use small side of keeper on cable specified.

Double Groove Clamp

ALUMINUM

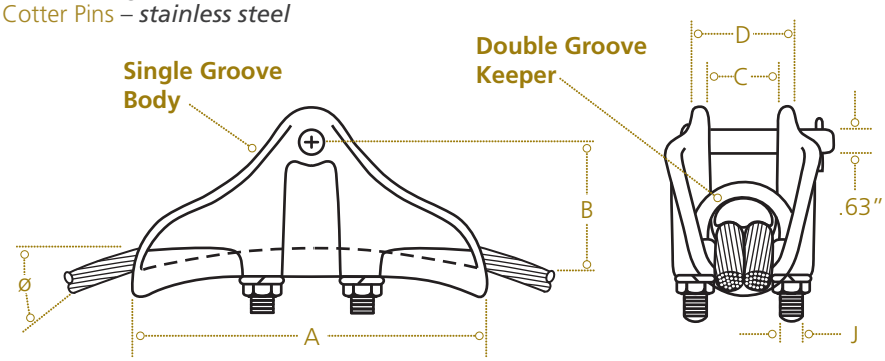
HAST2

Made with double groove keeper to accommodate twin conductor.

For standard voltage application with all aluminum, ASCR, or aluminum alloy conductor. Maximum conductor temperature 130 C. See Catalog Reference section for maximum conductor temperature guidelines.



Material: Body and Keeper – *aluminum alloy*
Sockets and Clevises – *galvanized ductile iron*
Hardware – *galvanized steel*
Cotter Pins – *stainless steel*



Product Data

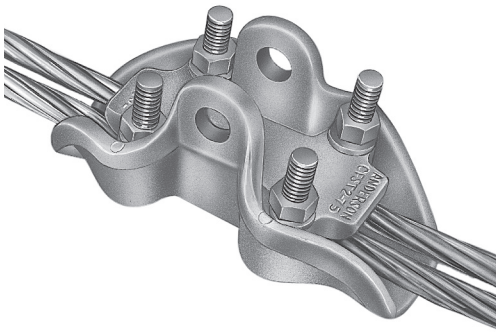
Catalog Number	Fitting		Clamping Range			Dimensions Inches						Ultimate Body Strength lb (kN)	Approx Wt Each lb (kg)
	Type	Catalog Number	ACSR	Inches	Aluminum	A	B	C	D	Ø	J		
HAST2118S HAST2118C HAST2118N	Socket Clevis None	SA10 CA101 —	1/0 to 3/0	.398 to .502	2/0-7 str to 3/0-19 str	8.00	2.75	1.41	2.41	22.5	½	25,000 (111)	4.40 (2.00) 4.50 (2.04) 2.80 (1.27)
HAST2139S HAST2139C HAST2139N	Socket Clevis None	SA13 CA13 —	134-12/7 to 266.8-26/7	.522 to .642	4/0-7 str to 300-61 str	8.88	3.00	1.63	2.56	22.5	½	25,000 (111)	4.90 (2.22) 5.00 (2.27) 3.30 (1.50)
HAST2182S HAST2182C HAST2182N	Socket Clevis None	SA16 CA16 —	336-18/1 to 477-18/1	.684 to .814	350-37 str to 500-37 str	10.00	3.25	2.06	3.00	25.0	½	25,000 (111)	6.00 (2.72) 6.10 (2.77) 4.30 (1.95)
HAST2204S HAST2204C HAST2204N	Socket Clevis None	SA16 CA16 —	477-26/7 to 556.5-26/7	.858 to .927	556-37 str to 636-37 str	10.50	3.53	2.17	3.13	20.5	½	25,000 (111)	6.60 (3.00) 6.70 (3.03) 4.90 (2.22)
HAST2252S HAST2252C HAST2252N	Socket Clevis None	SA22 CA22 —	636-24/7 to 954-45/7	.977 to 1.165	750-61 str to 1,000-61 str	12.00	4.25	2.68	3.81	17.5	⅝	30,000 (133) 25,000 (111) 30,000 (133)	11.80 (5.35) 12.30 (5.58) 10.00 (4.54)

NOTE: Recommended torque on U-bolts: ½″ — 480 in-lb, ⅝″ — 720 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number. Clamp may be furnished with ⅝″-11 galvanized steel bolt and nut with stainless steel cotter pin by adding "BNK" suffix to catalog number. Example: HAST2118SBNK.

Double Groove Corona Free Clamp

ALUMINUM
CFST2

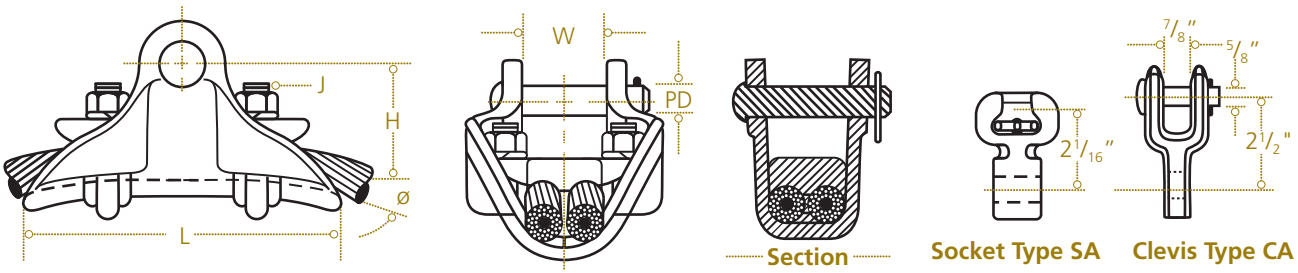
Type CFST2 is recommended for AAC, ACSR or AAAC T2 conductors. Maximum conductor temperature 130 C. See Catalog Reference section for maximum conductor temperature guidelines.



Designed with double grooves for use on standard or extra-high voltage T2 transmission lines. Corona and RIV are controlled through the design of the clamp, thus eliminating the need for control rings.

U-bolts are retained in place by grommets.

Material: Body and Keeper – *aluminum alloy*
Hardware – *galvanized steel*
Socket and Clevis – *galvanized ductile iron*
Cotter Pin – *stainless steel*
Grommet – *neoprene*



Product Data

Catalog Number	Fitting		Clamping Range Inches (mm)	Ultimate Body Strength Inches (kN)	Max Take-Off Angle	Dimensions Inches (mm)					Approx Wt Each lb (kg)
	Type	Catalog Number				L	W	H	J	PD	
CFST288N CFST288S CFST288C	None Socket Clevis	— SA16 CA16	.753-.883 (19.13-22.43)	20,000 (89)	17.5°	8⁷⁄₁₆ (214.38)	2 (50.80)	2½ (63.50)	½ (12.70)	⅝ (15.88)	2.8 (1.134) 4.2 (1.905) 4.3 (1.951)
CFST2130N CFST2130S CFST2130C	None Socket Clevis	— SA22 CA24	.88-1.30 (22.35-33.0)	25,000 (111)	17.5°	10½ (266.7)	3 (76.2)	3 (76.2)	½ (12.70)	⅝ (15.88)	6.0 (2.7) 7.9 (3.6) 8.3 (3.8)

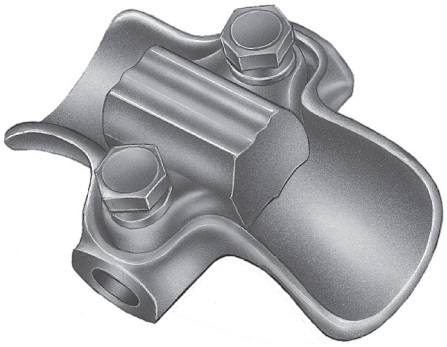
NOTE: Recommended torque on U-bolts: ½"— 480 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

Suspension Clamps — *Aluminum/Ductile Iron*

Double Groove Trunnion Clamp

ALUMINUM/DUCTILE
TSCT2/TSCDT2

For standard voltage applications with AAC, ACSR, or AAAC T2 conductor. See Catalog Reference section for maximum conductor temperature guidelines.



Designed with double groove keeper for use on tangent suspension spans with horizontal or vertical post insulators.

Keeper is reversible for proper fit on different size conductors.

Material: TSCT2: Body and Keeper – *aluminum alloy*
TSCDT2: Body – *galvanized ductile iron*
Keeper – *aluminum alloy*
Hardware – *galvanized steel*
Anti-static Spring – *stainless steel*

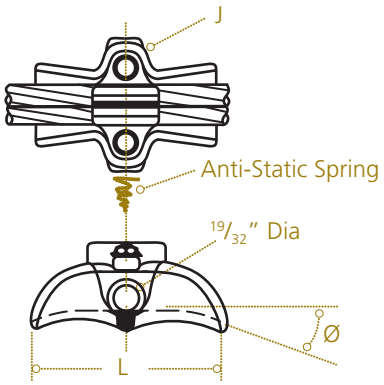


Figure 1

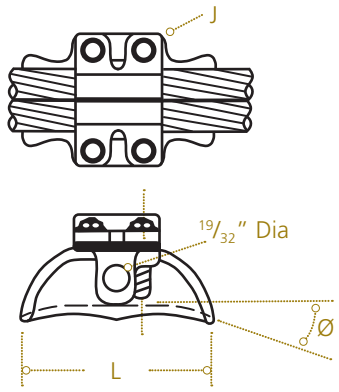


Figure 2



Product Data

Catalog Number	Figure Number	Clamping Range Inches (mm)	Ultimate Body Strength lb (kN)	Max Take-Off Angle	Dimensions Inches (mm)			Approx Wt Each lb (kg)
					L	W	J	
TSCT2150	1	.316-.563 (8.03-14.3)	2,800 (12)	20°	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	1.14 (.52)
TSCT2200	2	.642-.927 (16.31-23.54)	2,800 (12)	20°	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	1.75 (.79)
TSCDT2150	1	.316-.563 (8.03-14.3)	2,800 (12)	15°	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	2.50 (1.13)
TSCDT2200	2	.642-.927 (16.31-23.54)	2,800 (12)	20°	5¼ (133.3)	3⅞ (98.4)	½ (12.7)	2.94 (1.33)

NOTE: Recommended torque on ½" clamping bolts: 300 in-lb. Anti-static springs can be supplied by adding "ARIV" to catalog number.

250° Continuous HV and EHV

The HCSA is a bolted aluminum suspension clamp. It is designed to provide enhanced conductor support and protection. The HCSA combines a cast aluminum clamp assembly with helical aluminum alloy rod sets and EPDM rubber inserts. The rubber inserts are assembled directly onto the conductor and are held in place with the helical rods. The clamp assembly is then bolted around the helical wrapped rubber supporting inserts to compete the install.

Familiar Anderson Catalog Conventions (# Indicates Max Cable O.D.):
EX: HCSA**1516** covers conductors with OD within 1.478-**1.516".**
ADD "**E**" suffix for EHV version (HCSA1516**E**).

HCSA Delivered:

- Familiar Design (Look, Feel & Function)
- Corona test proven designs
- Packaging similar to existing industry experience
- Drawings & test reports available

*One part number for both **S**tandard and **H**igh **T**emperature applications

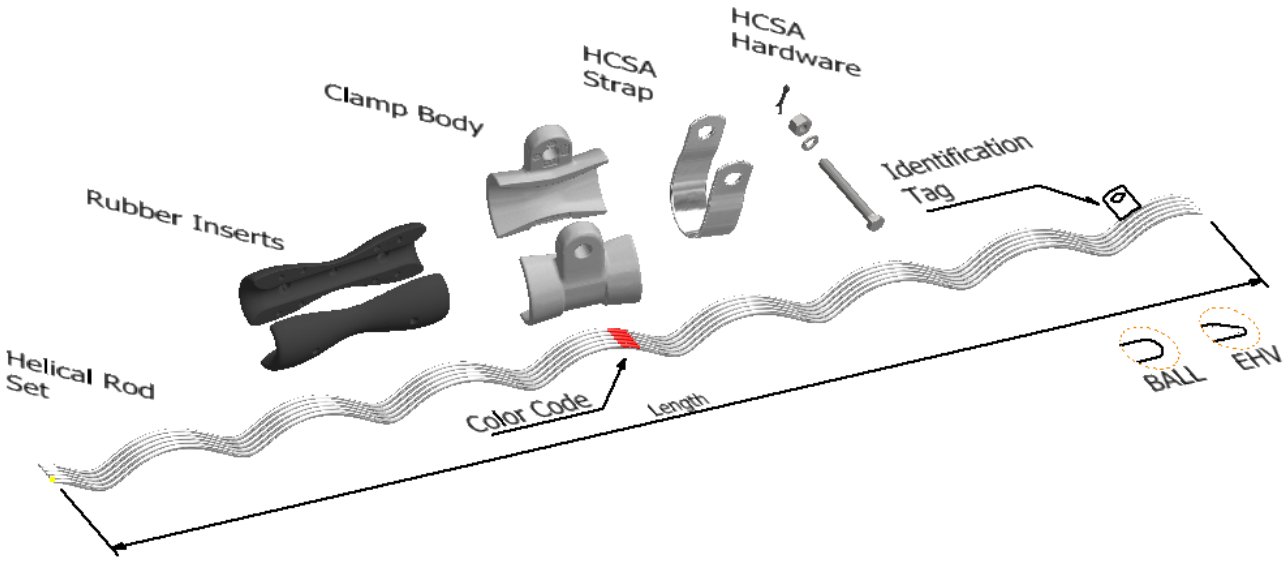


Aluminum Clamp (Assembly 250°C)

For standard voltage application with all aluminum, ACSR, ACSS, or aluminum alloy conductor. See Catalog Reference section for maximum conductor temperature guidelines.

Material: Clamp Body, Strap – *aluminum alloy*
Rubber Insert – *EPDM rubber*
Helical Rods – *aluminum alloy*
Hardware (Bolt, FW, LW, Nut) – *galvanized steel*
Cotter Pin – *stainless steel*

Application:
EX: HCSA**1516** covers conductors with OD within 1.478-**1.516".**
ADD "**E**" suffix for EHV version (HCSA1516**E**).



General Use:
Helical Cushion Suspension Assembly is designed to provide additional conductor strand protection at the point of attachment. It lowers the mechanical and thermal stresses which can be caused by a bend, compression, abrasion, or arc flashover.

Suspension Clamps — *Helical Cushion*

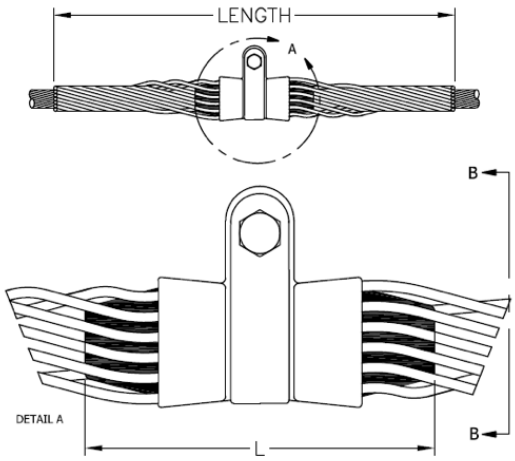
Corona Free Clamp (Assembly 250°C)

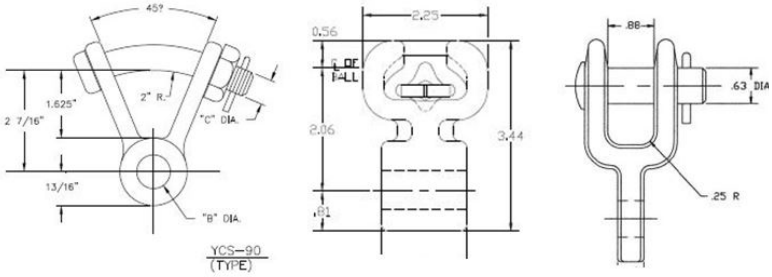
ALUMINUM
HCSA

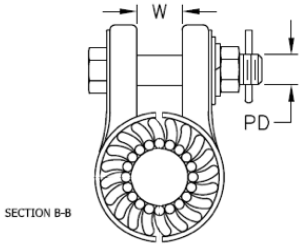
Designed for use on standard votage transmission lines. Corona and RIV tested up to 230kV applications for respective conductor sizes.

HCSA is recommended for all aluminum, ACSR, ACSS, or aluminum alloy conductor. Example: HCSA1118. Add suffix "ANCO" to include ANCO® locknut. Example: HCSA1118ANCO. Add suffix "S, C, or Y90" for respective Socket, Clevis, or Y90-Clevis Fitting. Example: HCSA1118S or HCSA1118ANCOS

Material: Clamp Body, Strap – *aluminum alloy*
Rubber Insert – *EPDM rubber*
Helical Rods – *aluminum alloy*
Hardware (Bolt, FW, LW, Nut) – *galvanized steel*
Cotter Pin – *stainless steel*







Fittings

Conductor Dia. Range Inches [mm]	W Inches [mm]	PD Inches [mm]	Y-90 Clevis Y90	Ult. Strength (LBS)	Socket-Eye S	Ult. Strength (LBS)	Clevis-Eye C	Ult. Strength (LBS)	ANCO® Locknut
0.908-1.005 [23.06-25.53]	0.94 [24]	0.63 [15.9]	YCS0690	25,000	SA06	25,000	CA06	25,000	1043620000
1.006-1.208 [25.55-30.68]	1.30 [33]	0.63 [15.9]	YCS1059013	30,000	SA10513	30,000	CA1013	25,000	1043620000
1.209-1.355 [30.71-34.42]	1.38 [35]	0.75 [19.1]	YCS1059013	30,000	SA10513	30,000	CA1013	25,000	1044250000
1.356-1.557 [34.44-39.55]	1.42 [36]	0.75 [19.1]	YCS1059013	30,000	SA10513	30,000	CA1013	25,000	1044250000

(1) Helical rods are right-hand lay standard.
(2) HCSA is supplied with BNK and does not include fittings.
(3) Hardware fitting packaged separately.
(4) ANCO® Locknut packaged separately.

Suspension Clamps — *Helical Cushion*

Single Suspension

ALUMINUM

HCSA

For AAC, AAAC, ACAR, ACSR, ACSR/TW, ACSS, ACSS/TW applications up to 250°C.
Maximum Takeoff Angle = 30°
Slip load is 15-20% of respective conductor RBS
Application O.D. = (Helical Rod O.D. x 2) + Conductor O.D.

Product Data and Conductor Size

Catalog Number	Conductor Dia. Range Inches [mm]	Nominal Conductor Size (AWG or KCMIL)		ULT. Body Strength (LBS)	Applied Rod Length Inches [mm]	Rod Dia. Inches	Rods Per Set	Std. Pack		As-sem-bly Wt. (LBS)	L Inches [mm]	Helical Rod Color Code
		ACSR/ ACSS	AAC/ AAAC					Rods	Clamp			
HCSA0920	0.908-0.920 [23.06-23.37]	556.5 (24/7)	636 (37W)	20,000	65.40 [1660]	0.250	12	9	9	81	8.80 [224]	YELLOW
HCSA0937	0.921-0.937 [23.39-23.80]	556.5 (26/7)	650 (61-91W)	20,000	66.00 [1676]	0.250	12	9	9	81	8.80 [224]	BLACK
HCSA0962	0.938-0.962 [23.83-24.43]	605 (24/7)		20,000	67.00 [1702]	0.250	12	9	9	81	8.80 [224]	WHITE
HCSA0986	0.963-0.986 [24.46-25.04]	636 (24/7)	715.5 (61W)	20,000	68.00 [1730]	0.250	13	9	9	87	8.80 [224]	BROWN
HCSA1005	0.987-1.005 [25.07-25.53]	636 (26/7)	750 (61W)	20,000	69.10 [1755]	0.250	13	9	9	87	8.80 [224]	ORANGE
HCSA1022	1.006-1.022 [25.55-25.96]	636 (30/19)		25,000	80.30 [2040]	0.310	11	6	6	73	9.00 [229]	PURPLE
HCSA1040	1.023-1.040 [25.98-26.42]	795 (36/1)	795 (37-61W)	25,000	81.10 [2060]	0.310	11	6	6	75	9.00 [229]	RED
HCSA1074	1.041-1.074 [26.44-27.28]	715.5 (26/7)	833.6 (37)	25,000	82.00 [2083]	0.310	11	6	6	75	9.00 [229]	BLUE
HCSA1090	1.075-1.090 [27.31-27.69]	715.5 (30/19)	874.5 (37W)	25,000	82.00 [2083]	0.310	12	6	6	78	9.00 [229]	GREEN
HCSA1118	1.091-1.118 [27.71-28.40]	795 (26/7)	900 (37-61W)	25,000	82.00 [2083]	0.310	12	6	6	78	9.00 [229]	YELLOW
HCSA1136	1.119-1.136 [28.42-28.85]	900 (45/7)	954 (37W)	25,000	82.00 [2083]	0.310	12	6	6	78	9.00 [229]	BLACK
HCSA1152	1.137-1.152 [28.88-29.26]	795 (30/19)	1000 (61W)	25,000	82.00 [2083]	0.310	12	6	6	78	9.00 [229]	WHITE

(1) Right-hand lay standard.

(2) For aluminum conductors types & sizes not listed, select catalog number based on dia. range to accommodate conductor.

Suspension Clamps — *Helical Cushion*

Single Suspension

ALUMINUM

HCSA

For AAC, AAAC, ACAR, ACSR, ACSR/TW, ACSS, ACSS/TW applications up to 250°C.
Maximum Takeoff Angle = 30°
Slip load is 15-20% of respective conductor RBS
Application O.D. = (Helical Rod O.D. x 2) + Conductor O.D.

Product Data and Conductor Size (continued)

Catalog Number	Conductor Dia. Range Inches [mm]	Nominal Conductor Size (AWG or KCMIL)		ULT. Body Strength (LBS)	Applied Rod Length Inches [mm]	Rod Dia. Inches	Rods Per Set	Std. Pack		As-sem-bly Wt. (LBS)	L Inches [mm]	Helical Rod Color Code
		ACSR/ ACSS	AAC/ AAAC					Rods	Clamp			
HCSA1175	1.153-1.175 [29.29-29.85]	954 (45/7)	1033.5 (37W)	25,000	82.00 [2083]	0.310	12	6	6	79	9.00 [229]	BROWN
HCSA1208	1.176-1.208 [29.87-30.68]	954 (54/7)	1092.3 (61)	25,000	82.00 [2083]	0.310	12	6	6	79	9.00 [229]	ORANGE
HCSA1226	1.209-1.226 [30.71-31.14]	1033.5 (45/7)	1113 (61W)	25,000	88.00 [2235]	0.365	11	3	3	55	12.00 [305]	PURPLE
HCSA1259	1.227-1.259 [31.17-31.98]	1033.5 (54/7)	1192.5 (61W)	25,000	88.00 [2235]	0.365	11	3	3	55	12.00 [305]	RED
HCSA1286	1.260-1.286 [32.00-32.66]	1113 (48/7)	1200 (91W)	25,000	88.00 [2235]	0.365	12	3	3	58	12.00 [305]	BLUE
HCSA1314	1.287-1.314 [32.69-33.38]	1192.5 (45/7)	1272 (61W)	25,000	88.00 [2235]	0.365	12	3	3	58	12.00 [305]	GREEN
HCSA1355	1.315-1.355 [33.40-34.42]	1272 (45/7)		25,000	88.00 [2235]	0.365	12	3	3	58	12.00 [305]	YELLOW
HCSA1394	1.356-1.394 [34.44-35.41]	1272 (54/19)	1431 (61W)	25,000	88.00 [2235]	0.365	12	3	3	60	11.00 [279]	BLACK
HCSA1416	1.395-1.416 [35.43-35.97]	1351 (54/19) AWAC	1500 (91W)	25,000	88.00 [2235]	0.365	13	3	3	61	11.00 [279]	WHITE
HCSA1442	1.417-1.442 [35.99-36.63]	1431 (45/7)	1510.5 (61W)	25,000	88.00 [2235]	0.365	13	3	3	62	11.00 [279]	BROWN
HCSA1477	1.443-1.477 [36.65-37.52]	1431 (54/19)	1590 (61-91W)	25,000	88.00 [2235]	0.365	13	3	3	64	11.00 [279]	ORANGE
HCSA1516	1.478-1.516 [37.54-38.51]	1590 (45/7)	1700 (127W)	25,000	88.00 [2235]	0.365	13	3	3	64	11.00 [279]	PURPLE
HCSA1557	1.517-1.557 [38.53-39.55]	1590 (54/19)	1800 (127W)	25,000	88.00 [2235]	0.365	13	3	3	64	11.00 [279]	RED

(1) Right-hand lay standard.

(2) For aluminum conductors types & sizes not listed, select catalog number based on dia. range to accommodate conductor.

Notes:

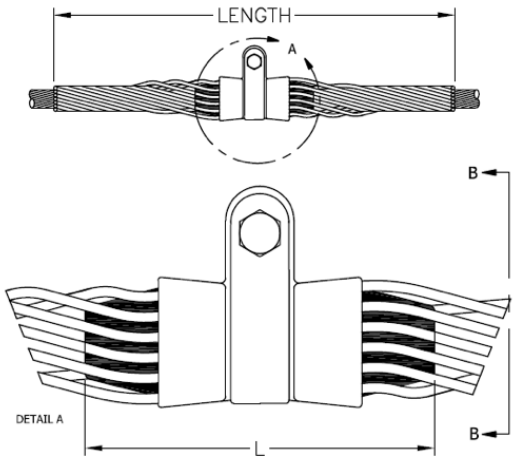
Suspension Clamps — *Helical Cushion (EHV)*

Corona Free Clamp (Assembly 250°C)

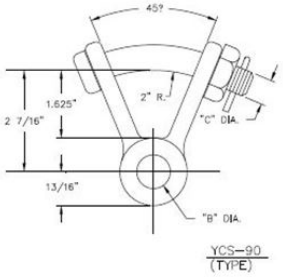
ALUMINUM
HCSA (EHV)

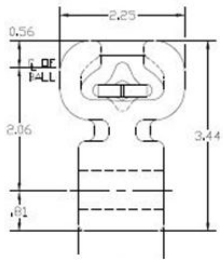
Designed for use on standard votage transmission lines. Corona and RIV tested up to 500kV applications for respective conductor sizes.

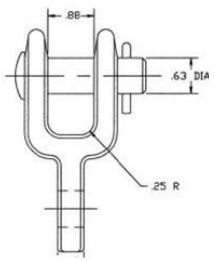
HCSA EHV is recommended for all aluminum, ACSR, ACSS, or aluminum alloy conductor. For EHV add suffix "E." Example: HCSA1118E. Add suffix "ANCO" to include ANCO® locknut. Example: HCSA1118EANCO. Add suffix "S, C, or Y90" for respective Socket, Clevis, or Y90-Clevis Fitting. Example: HCSA1118ES or HCSA1118EANCOS

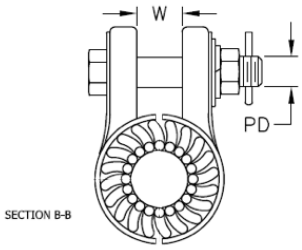


Material: Clamp Body, Strap – *aluminum alloy*
Rubber Insert – *EPDM rubber*
Helical Rods – *aluminum alloy*
Hardware (Bolt, FW, LW, Nut) – *galvanized steel*
Cotter Pin – *stainless steel*









Fittings

Conductor Dia. Range Inches [mm]	W Inches [mm]	PD Inches [mm]	Y-90 Clevis Y90	Ult. Strength (LBS)	Socket-Eye S	Ult. Strength (LBS)	Clevis-Eye C	Ult. Strength (LBS)	ANCO® Locknut
0.908-1.005 [23.06-25.53]	0.94 [24]	0.63 [15.9]	YCS0690	25,000	SA06	25,000	CA06	25,000	1043620000
1.006-1.208 [25.55-30.68]	1.30 [33]	0.63 [15.9]	YCS1059013	30,000	SA10513	30,000	CA1013	25,000	1043620000
1.209-1.355 [30.71-34.42]	1.38 [35]	0.75 [19.1]	YCS1059013	30,000	SA10513	30,000	CA1013	25,000	1044250000
1.356-1.557 [34.44-39.55]	1.42 [36]	0.75 [19.1]	YCS1059013	30,000	SA10513	30,000	CA1013	25,000	1044250000

(1) Helical rods are right-hand lay standard
(2) HCSA is supplied with BNK and does not include fittings.
(3) Hardware fitting packaged separately.
(4) ANCO® Locknut packaged separately.

Suspension Clamps — *Helical Cushion (EHV)*

Single Suspension

ALUMINUM

HCSA (EHV)

For AAC, AAAC, ACAR, ACSR, ACSR/TW, ACSS, ACSS/TW applications up to 250°C.
Maximum Takeoff Angle = 30°
Slip load is 15-20% of respective conductor RBS
Application O.D. = (Helical Rod O.D. x 2) + Conductor O.D.

Product Data and Conductor Size

Catalog Number	Conductor Dia. Range Inches [mm]	Nominal Conductor Size (AWG or KCMIL)		ULT. Body Strength (LBS)	Applied Rod Length Inches [mm]	Rod Dia. Inches	Rods Per Set	Std. Pack		Assembly Wt. (LBS)	L Inches [mm]	Helical Rod Color Code
		ACSR/ ACSS	AAC/ AAAC					Rods	Clamp			
HCSA0920E	0.908-0.920 [23.06-23.37]	556.5 (24/7)	636 (37W)	20,000	65.40 [1660]	0.250	12	9	9	81	8.80 [224]	YELLOW
HCSA0937E	0.921-0.937 [23.39-23.80]	556.5 (26/7)	650 (61-91W)	20,000	66.00 [1676]	0.250	12	9	9	81	8.80 [224]	BLACK
HCSA0962E	0.938-0.962 [23.83-24.43]	605 (24/7)		20,000	67.00 [1702]	0.250	12	9	9	81	8.80 [224]	WHITE
HCSA0986E	0.963-0.986 [24.46-25.04]	636 (24/7)	715.5 (61W)	20,000	68.00 [1730]	0.250	13	9	9	87	8.80 [224]	BROWN
HCSA1005E	0.987-1.005 [25.07-25.53]	636 (26/7)	750 (61W)	20,000	69.10 [1755]	0.250	13	9	9	87	8.80 [224]	ORANGE
HCSA1022E	1.006-1.022 [25.55-25.96]	636 (30/19)		25,000	80.30 [2040]	0.310	11	6	6	73	9.00 [229]	PURPLE
HCSA1040E	1.023-1.040 [25.98-26.42]	795 (36/1)	795 (37-61W)	25,000	81.10 [2060]	0.310	11	6	6	75	9.00 [229]	RED
HCSA1074E	1.041-1.074 [26.44-27.28]	715.5 (26/7)	833.6 (37)	25,000	82.00 [2083]	0.310	11	6	6	75	9.00 [229]	BLUE
HCSA1090E	1.075-1.090 [27.31-27.69]	715.5 (30/19)	874.5 (37W)	25,000	82.00 [2083]	0.310	12	6	6	78	9.00 [229]	GREEN
HCSA1118E	1.091-1.118 [27.71-28.40]	795 (26/7)	900 (37-61W)	25,000	82.00 [2083]	0.310	12	6	6	78	9.00 [229]	YELLOW
HCSA1136E	1.119-1.136 [28.42-28.85]	900 (45/7)	954 (37W)	25,000	82.00 [2083]	0.310	12	6	6	78	9.00 [229]	BLACK
HCSA1152E	1.137-1.152 [28.88-29.26]	795 (30/19)	1000 (61W)	25,000	82.00 [2083]	0.310	12	6	6	78	9.00 [229]	WHITE

(1) Right-hand lay standard.

(2) For aluminum conductors types & sizes not listed, select catalog number based on dia. range to accommodate conductor.

Suspension Clamps — *Helical Cushion (EHV)*

Single Suspension

ALUMINUM
HCSA (EHV)

For AAC, AAAC, ACAR, ACSR, ACSR/TW, ACSS, ACSS/TW applications up to 250°C.
Maximum Takeoff Angle = 30°
Slip load is 15-20% of respective conductor RBS
Application O.D. = (Helical Rod O.D. x 2) + Conductor O.D.

Product Data and Conductor Size

Catalog Number	Conductor Dia. Range Inches [mm]	Nominal Conductor Size (AWG or KCMIL)		ULT. Body Strength (LBS)	Applied Rod Length Inches [mm]	Rod Dia. Inches	Rods Per Set	Std. Pack		Assembly Wt. (LBS)	L Inches [mm]	Helical Rod Color Code
		ACSR/ ACSS	AAC/ AAAC					Rods	Clamp			
HCSA1175E	1.153-1.175 [29.29-29.85]	954 (45/7)	1033.5 (37W)	25,000	82.00 [2083]	0.310	12	6	6	79	9.00 [229]	BROWN
HCSA1208E	1.176-1.208 [29.87-30.68]	954 (54/7)	1092.3 (61)	25,000	82.00 [2083]	0.310	12	6	6	79	9.00 [229]	ORANGE
HCSA1226E	1.209-1.226 [30.71-31.14]	1033.5 (45/7)	1113 (61W)	25,000	88.00 [2235]	0.365	11	3	3	55	12.00 [305]	PURPLE
HCSA1259E	1.227-1.259 [31.17-31.98]	1033.5 (54/7)	1192.5 (61W)	25,000	88.00 [2235]	0.365	11	3	3	55	12.00 [305]	RED
HCSA1286E	1.260-1.286 [32.00-32.66]	1113 (48/7)	1200 (91W)	25,000	88.00 [2235]	0.365	12	3	3	58	12.00 [305]	BLUE
HCSA1314E	1.287-1.314 [32.69-33.38]	1192.5 (45/7)	1272 (61W)	25,000	88.00 [2235]	0.365	12	3	3	58	12.00 [305]	GREEN
HCSA1355E	1.315-1.355 [33.40-34.42]	1272 (45/7)		25,000	88.00 [2235]	0.365	12	3	3	58	12.00 [305]	YELLOW
HCSA1394E	1.356-1.394 [34.44-35.41]	1272 (54/19)	1431 (61W)	25,000	88.00 [2235]	0.365	12	3	3	60	11.00 [279]	BLACK
HCSA1416E	1.395-1.416 [35.43-35.97]	1351 (54/19) AWAC	1500 (91W)	25,000	88.00 [2235]	0.365	13	3	3	61	11.00 [279]	WHITE
HCSA1442E	1.417-1.442 [35.99-36.63]	1431 (45/7)	1510.5 (61W)	25,000	88.00 [2235]	0.365	13	3	3	62	11.00 [279]	BROWN
HCSA1477E	1.443-1.477 [36.65-37.52]	1431 (54/19)	1590 (61-91W)	25,000	88.00 [2235]	0.365	13	3	3	64	11.00 [279]	ORANGE
HCSA1516E	1.478-1.516 [37.54-38.51]	1590 (45/7)	1700 (127W)	25,000	88.00 [2235]	0.365	13	3	3	64	11.00 [279]	PURPLE
HCSA1557E	1.517-1.557 [38.53-39.55]	1590 (54/19)	1800 (127W)	25,000	88.00 [2235]	0.365	13	3	3	64	11.00 [279]	RED

(1) Right-hand lay standard.

(2) For aluminum conductors types & sizes not listed, select catalog number based on dia. range to accommodate conductor.

Notes:

Notes:

Suspension Clamps — *Helical Cushion*

Product Cross Reference

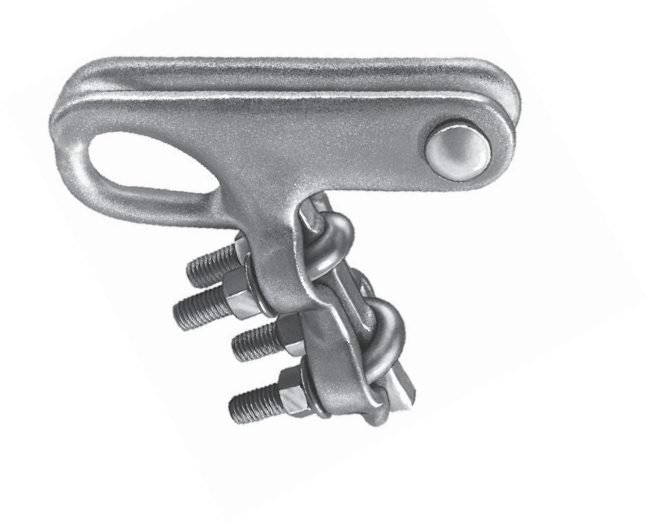
Conductor Dia. IN		Standard Votage		EHV	
Min.	Max.	HPS	PLP	HPS	PLP
0.908	0.92	HCSA0920	AGS-5121	HCSA0920E	AGS-5500
0.921	0.937	HCSA0937	AGS-5122	HCSA0937E	AGS-5501
0.938	0.962	HCSA0962	AGS-5123	HCSA0962E	AGS-5502
0.963	0.986	HCSA0986	AGS-5124	HCSA0986E	AGS-5503
0.987	1.005	HCSA1005	AGS-5125	HCSA1005E	AGS-5504
1.006	1.022	HCSA1022	AGS-5126	HCSA1022E	AGS-5505
1.023	1.04	HCSA1040	AGS-5127	HCSA1040E	AGS-5506
1.041	1.074	HCSA1074	AGS-5128	HCSA1074E	AGS-5507
1.075	1.09	HCSA1090	AGS-5129	HCSA1090E	AGS-5508
1.091	1.118	HCSA1118	AGS-5130	HCSA1118E	AGS-5509
1.119	1.136	HCSA1136	AGS-5131	HCSA1136E	AGS-5510
1.137	1.152	HCSA1152	AGS-5132	HCSA1152E	AGS-5511
1.153	1.175	HCSA1175	AGS-5133	HCSA1175E	AGS-5512
1.176	1.208	HCSA1208	AGS-5134	HCSA1208E	AGS-5513
1.209	1.226	HCSA1226	AGS-5135	HCSA1226E	AGS-5514
1.227	1.259	HCSA1259	AGS-5136	HCSA1259E	AGS-5515
1.26	1.286	HCSA1286	AGS-5137	HCSA1286E	AGS-5516
1.287	1.314	HCSA1314	AGS-5138	HCSA1314E	AGS-5517
1.315	1.355	HCSA1355	AGS-5139	HCSA1355E	AGS-5518
1.356	1.394	HCSA1394	AGS-5140	HCSA1394E	AGS-5519
1.395	1.416	HCSA1416	AGS-5141	HCSA1416E	AGS-5520
1.417	1.442	HCSA1442	AGS-5142	HCSA1442E	AGS-5521
1.443	1.477	HCSA1477	AGS-5143	HCSA1477E	AGS-5522
1.478	1.516	HCSA1516	AGS-5144	HCSA1516E	AGS-5523
1.517	1.557	HCSA1557	AGS-5145	HCSA1557E	AGS-5524

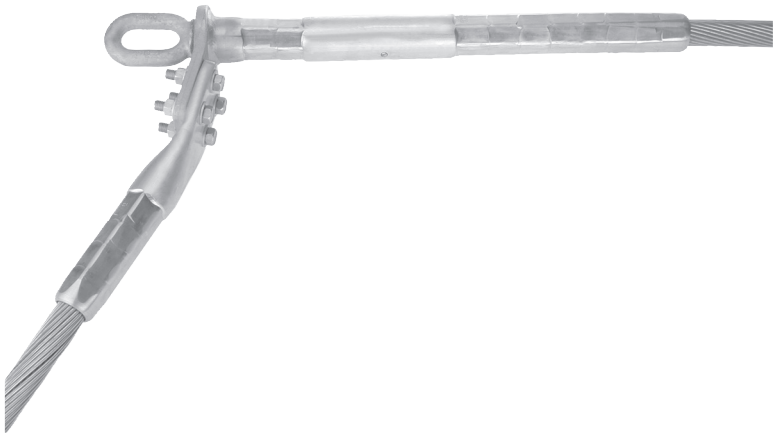
(1) HCSA offerings are rated 250°C Continuous.

(2) One part num,be for both Standard and High Temperature applications.

Notes:

Deadends







quality

Deadends Index

Bolted/Aluminum

AR1/AR2 ..... Quadrant Strain Clamp C-7
PG/DE ..... Quadrant Strain Clamp C-5
SD ..... Quadrant Strain Clamp C-2
SDT2 ..... Double Groove Strain Clamp C-4

Bolted/Bronze

BR1/BR2 ..... Quadrant Strain Clamp C-9
BSD ..... Quadrant Strain Clamp C-8

Bolted/Ductile

SWDE/MD ..... Quadrant Strain Clamp C-10

Compression/Aluminum

A01/A03 ..... Uni-Grip® Eye Type, Single Tongue-ACSR C-12
A02/A04 ..... Uni-Grip® Eye Type, Double Tongue-ACSR C-15
A09/A10 ..... Uni-Grip® Adjustable Clevis Type-ACSR C-18
AB01/AB03 ..... Uni-Grip® Eye Type, Single Tongue-Alloy & ACAR C-21
AB02/AB04 ..... Uni-Grip® Eye Type, Double Tongue-Alloy & ACAR C-22
AB09/AB10 ..... Uni-Grip® Adjustable Clevis Type-Alloy & ACAR C-23
C01/C03 ..... Uni-Grip® Eye Type, Single Tongue-AAC C-24
C02/C04 ..... Uni-Grip® Eye Type, Double Tongue-AAC C-26
C09/C10 ..... Uni-Grip® Adjustable Clevis Type-AAC C-28
SEDA/DEDA ..... Conventional Two-Die System-ACSR C-30
SEDA/DEDA ..... Conventional Two-Die System-ACSS C-34
SEDA/DEDA ..... Conventional Two-Die System-ACSS/TW C-36
SEDA/DEDA ..... Conventional Deadend Accessories-AAC C-39

Compression/Galvanized Steel

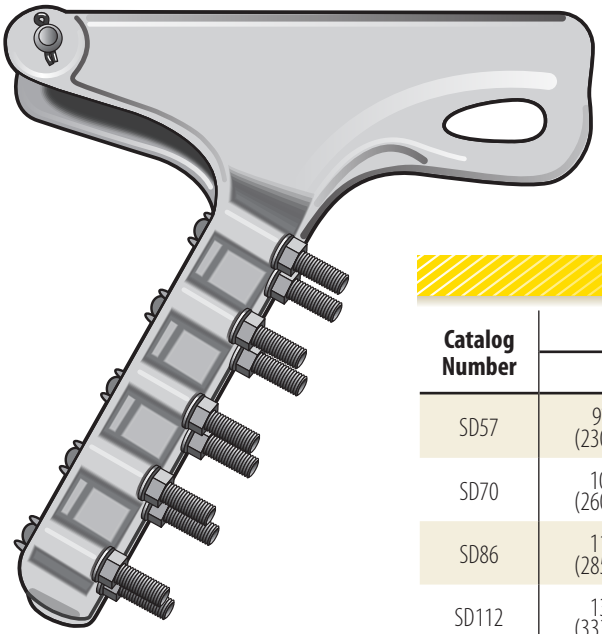
86 ..... Static Wire Deadend Alumoweld® & EHS Steel C-38

Quadrant Strain Clamp Aluminum

ALUMINUM
SD

For transmission line construction with all aluminum, ACSR or aluminum alloy conductor, or for Alumoweld® shield wire. See Catalog Reference section for maximum conductor temperature guidelines.

Material: Body and Keeper – *aluminum alloy*
Hardware – *galvanized steel*
Sockets and Clevises – *galvanized ductile iron*
Cotter Pin – *stainless steel*

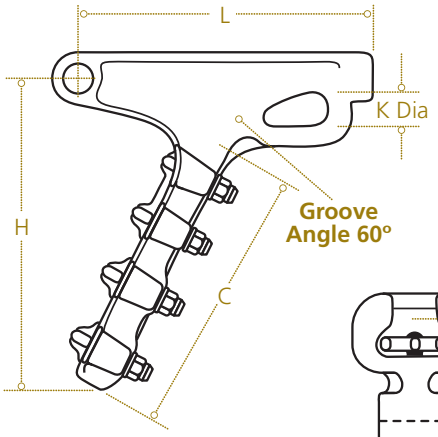


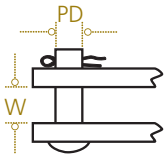
Product Data and Conductor Size

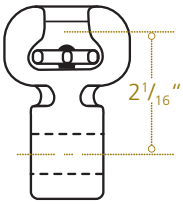
Catalog Number	Dimensions Inches (mm)					
	L	W	H	C	K	PD
SD57	9 1/16 (230.19)	3/4 (19.05)	6 3/4 (171.45)	5 1/8 (130.18)	1 1/4 (31.75)	5/8 (15.88)
SD70	10 1/4 (260.35)	15/16 (23.81)	8 3/8 (212.73)	6 1/2 (165.10)	1 1/4 (31.75)	5/8 (15.88)
SD86	11 1/4 (285.75)	1 1/16 (26.99)	9 5/8 (244.48)	7 3/8 (187.33)	1 1/4 (31.75)	5/8 (15.88)
SD112	13 1/8 (333.38)	1 3/8 (34.93)	11 1/2 (292.1)	8 1/4 (209.6)	1 3/8 (34.33)	3/4 (19.05)
SD130	14 (355.6)	1 7/16 (36.51)	13 1/8 (333.38)	9 1/2 (241.3)	1 1/2 (38.10)	3/4 (19.05)
SD155	15 1/2 (393.70)	2 (50.8)	15 3/4 (400.05)	12 3/8 (314.32)	1 1/2 (38.10)	3/4 (19.05)
SD185	17 (431.80)	1 7/8 (47.63)	18 (457.20)	12 3/8 (314.32)	1 1/2 (38.10)	1 (25.40)

Deadends — *Bolted*

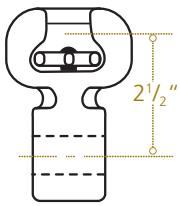
Quadrant Strain Clamp Aluminum (*continued*)



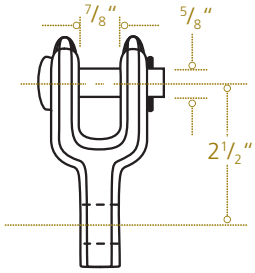




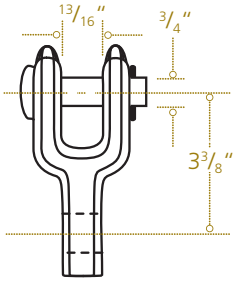
Socket Type SA



Socket Type SA1417



Clevis Type CA



Clevis Type CA1517033

Product Data and Conductor Size

Catalog Number	Fitting		Clamping Range			Ultimate Strength lb (kN)	U-Bolts		Approx Weight Each lb (kg)
	Type	Catalog Number	ACSR	Aluminum	Inches (mm)		No	Size Inches (mm)	
SD57N SD57S SD57C	None Socket Clevis	SA04 CA04	#4-6/1 to 266.8-26/7	#4-7 str to 300-37 str	.20-.64 (5.08-16.26)	15,000 (67)	3	½ (12.70)	3.2 (1.45) 4.4 (2.00) 4.8 (2.63)
SD70N SD70S SD70C	None Socket Clevis	— SA06 CA06	#2-7/1 to 397.5-18/1	#1-7 str to 397.5-37 str	.30-.75 (7.62-19.05)	20,000 (89)	4	½ (12.70)	4.7 (2.14) 6.0 (2.72) 6.4 (2.90)
SD86N SD86S SD86C	None Socket Clevis	— SA07 CA06	#3/0-6/1 to 556-26/7	3/0-19 str to 650-61 str	.46-.94 (10.16-23.88)	25,000 (111)	4	½ (12.70)	5.4 (2.45) 6.8 (3.09) 7.1 (3.22)
SD112N SD112S SD112C	None Socket Clevis	— SA1013 CA1013	#3/0-6/1 to 954-54/7	4/0-19 str to 1033.5-61 str	.50-1.20 (12.80-30.48)	30,000 (133) 30,000 (133) 25,000 (111)	5	½ (12.70)	8.4 (3.81) 9.9 (4.5) 10.4 (4.73)
SD130N SD130S *SD130SA15503 SD130C	None Socket Socket Clevis	— SA1013 SA15503 CA1013	336.4-26/7 to 1272-54/19	397.5-19 str to 1431-61 str	.70-1.39 (17.78-35.30)	35,000 (156) 30,000 (133) 35,000 (156) 25,000 (111)	5	⅝ (15.88)	13.2 (6.00) 15.3 (6.95) 16.7 (7.58) 15.5 (7.04)
SD155N SD155S *SD155SA1550 SD155C	None Socket Socket Clevis	— SA1613 SA1550 CA1613	1,033.5 (36/1) to 1510.5 (54/19)	1,100-91 str to 1,700-127 str	1.18-1.55 (29.97-38.61)	35,000 (156) 30,000 (133) 35,000 (156) 25,000 (111)	5	⅝ (15.88)	15.5 (7.00) 17.3 (7.85) 18.5 (8.37) 17.3 (7.85)
SD185N SD185S *SD185SA1550 SD185C	None Socket Socket Clevis	— SA1417 SA1550 CA1517033	1,192.5 (45/7) to 2,156 (84/19)	1,272-61 str to 2,500-127 str	1.30-1.85 (33.02-46.99)	50,000 (222) 30,000 (133) 50,000 (222) 30,000 (133)	5	⅝ (15.88)	21.0 (9.53) 22.7 (10.30) 24.0 (10.9) 22.3 (10.11)

NOTE: Sag eye ultimate strength is 60% of clamp strength without fitting. Rated slip strength as a percentage of conductor RBS varies with conductor type, size and stranding. Minimum slip strength rating on standard strength conductors is 40% RBS (partial tension). For most standard strength conductors, minimum slip strength of this clamp series is 60% RBS (normal tension). Consult factory for slip strength test data on specific clamp and conductor combinations. Recommended torque on U-bolts: ½" — 480 in-lb, ⅝" — 720 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number. For corona-free applications on EHV lines, add suffix "CRF" to catalog number. Example SD130NCRF.

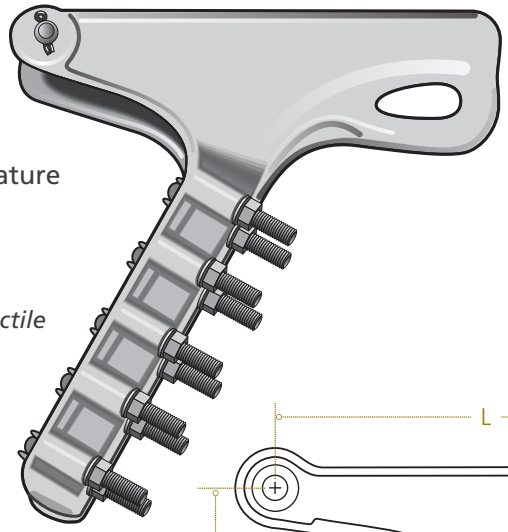
* These clamps furnished with socket eyes for connection to ANSI class 52-8 or 52-11 insulators.

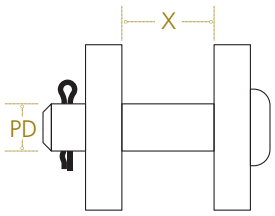
Double Groove Strain Clamp Aluminum

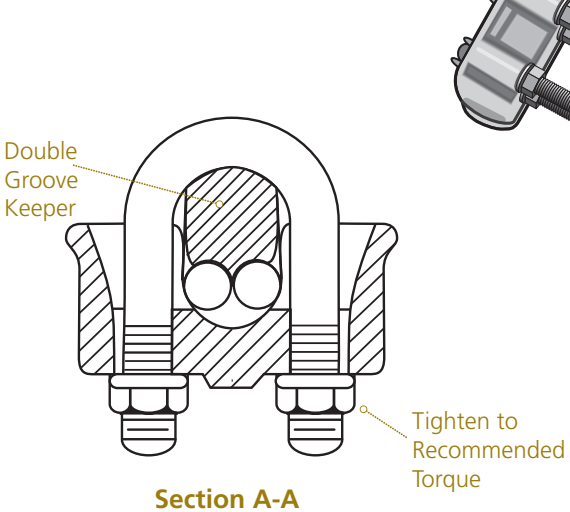
ALUMINUM
SDT2

Made with double groove keeper to accommodate twin conductor. For transmission line construction with all aluminum, ACSR or aluminum alloy conductor. See Catalog Reference section for maximum conductor temperature guidelines.

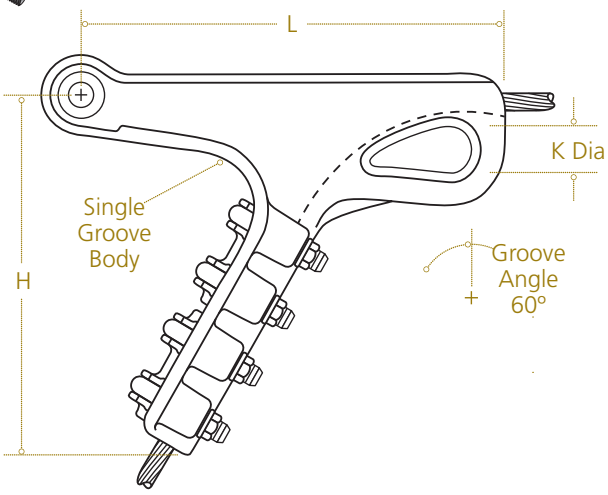
Material: Body and Keeper – *aluminum alloy*
Hardware – *galvanized steel*
Sockets and clevises – *galvanized ductile iron*







Section A-A



Product Data and Conductor Size

Catalog Number	Fitting		Clamp Range			Ultimate Strength lb	U-Bolts No	Dimensions Inches						Approx Weight Each lb
			ACSR	Aluminum	Inches			Size	L	H	K	PD	X	
SDT286N SDT286S SDT286C	None Socket Clevis	 SA07 CA06	1/0-6/1 to 2/0-6/1	2/0-7 str to 2/0-19 str	.398 to .447	25,000 25,000 25,000	4	½	11¼	9⅝	1¼	⅝	1⅛	5.4 6.0 6.4
SDT2112N SDT2112S SDT2112C	None Socket Clevis	 SA1013 CA1013	3/0-6/1 to 4/0-6/1	4/0-7 str to 4/0-19 str	.502 to .562	30,000 30,000 25,000	5	½	13⅜	11½	1⅜	¾	1⅜	8.4 9.9 10.0
SDT2185N SDT2185S SDT2185C	None Socket Clevis	 SA1417 CA1517033	226.8-26/7 to 556.5-18/1	336.4-19 str to 556.5-37 str	.642 to .879	50,000 30,000 30,000	5	⅝	17	18	1 ½	1	1⅞	21.0 22.7 22.3

NOTE: Sag eye ultimate strength is 60% of clamp strength without fitting. Rated slip strength as a percentage of conductor RBS varies with conductor type, size and stranding. Minimum slip strength rating on standard strength conductors is 40% RBS (partial tension). For most standard strength conductors, minimum slip strength of this clamp series is 60% RBS (normal tension). Consult factory for slip strength test data on specific clamp and conductor combinations. Recommended torque on U-bolts: ½" — 480 in-lb, ⅝" — 720 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number. For corona-free applications on EHV lines, add suffix "CRF" to catalog number. Example SD130NCRF.

Quadrant Strain Clamp Aluminum

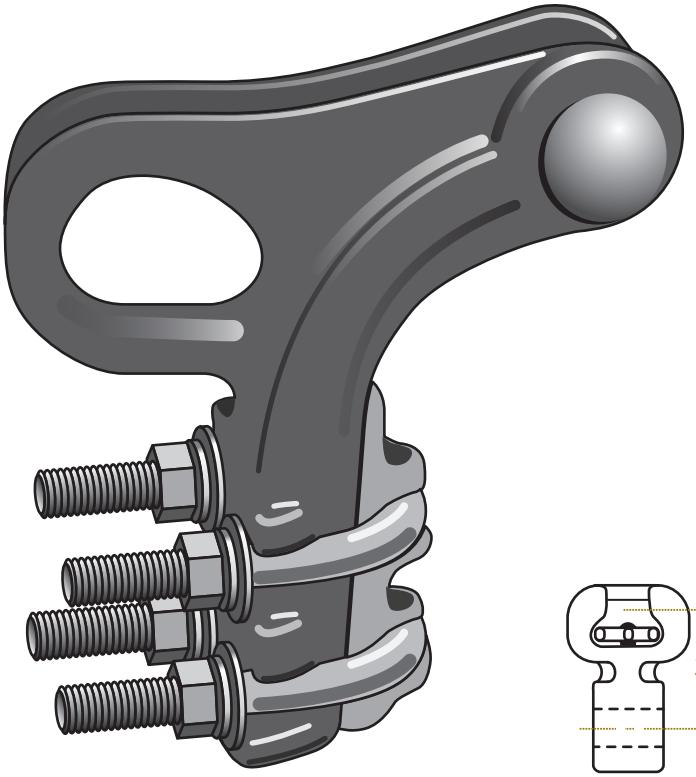
ALUMINUM
PG/DE

For distribution and light transmission construction with all aluminum, ACSR or aluminum alloy conductor. See Catalog Reference section for maximum conductor temperature guidelines.

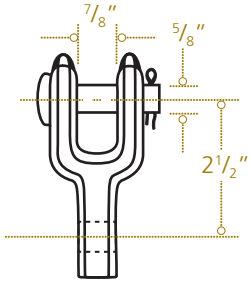
Material: Body and Keeper – *aluminum alloy*
Hardware – *galvanized steel*
Sockets and Clevises – *galvanized ductile iron*
Cotter Pin – *stainless steel*

Product Data and Conductor Size

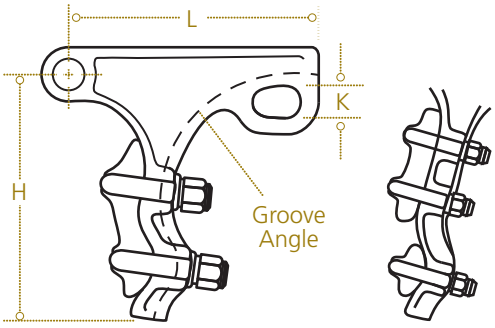
Catalog Number	Dimensions Inches (mm)			
	L	W	H	K
DE46	3⅞ (98.30)	11/16 (17.46)	3 13/16 (96.84)	⅞ (22.10)
PG46	4 1/16 (103.18)	11/16 (17.46)	4¾ (120.65)	1 (25.40)
PG57	5½ (139.7)	11/16 (17.46)	5 5/16 (134.87))	1 (25.40)
PG70	6 7/16 (163.51)	25/32 (19.84)	7 (177.80)	1⅛ (28.58)
PG86	12 5/16 (312.74)	1 1/16 (26.99)	11 (279.40)	1¼ (31.75)
PG86L	6 9/16 (166.69)	1 1/16 (26.99)	7 7/16 (188.91)	1 (25.40)
PG100L	9⅞ (250.83)	1 3/16 (30.16)	9 5/16 (236.54)	1¼ (31.75)



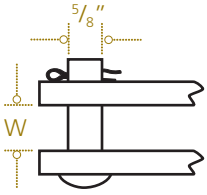
Socket Type SA

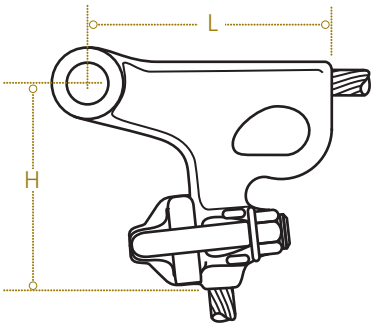


Clevis Type CA



Type PG





Type DE46

Quadrant Strain Clamp Aluminum (*continued*)

Product Data and Conductor Size

Catalog Number	Fitting		Clamping Range			Ultimate Strength lb (kN)	U-Bolts		Groove Angle	Approx Weight Each lb (kg)
	Type	Catalog Number	ACSR	Aluminum	Inches (mm)		No	Size Inches (mm)		
DE46N DE46S DE46C	None Socket Clevis	— SA04 CA04	#6 (6/1) to 3/0 (6/1)	#6 -7 str to 3/0-19 str	.18-.52 (4.57-13.21)	8,000 (33)	1	½ (12.70)	85°	1.2 (.54) 2.2 (1.00) 2.2 (1.00)
PG46N(1) PG46S PG46C	None Socket Clevis	— SA04 CA04	#6 (6/)1 to 3/0 (6/1)	#6 -7 str to 3/0-19 str	.18-.52 (4.57-13.21)	8,000 (33)	2	⅜ (9.53)	90°	1.1 (.50) 2.4 (1.08) 2.7 (1.22)
PG57N(1) PG57S PG57C	None Socket Clevis	— SA04 CA04	#4 (6/1) to 4/0 (6/1)	#3 -7 str to 4/0-19 str	.25-.57 (6.35-14.48)	10,000 (44)	2	½ (12.70)	90°	2.0 (.91) 3.2 (1.45) 3.6 (1.63)
PG70N PG70S PG70C	None Socket Clevis	— SA04 CA04	101.8 (12/7) to 336.4 (26/7)	3/0 -7 str to 400-37 str	.46-.73 (11.68-18.54)	15,000 (67)	2	½ (12.70)	85°	2.5 (1.13) 3.8 (1.72) 4.1 (1.86)
PG86LN PG86LS PG86LC	None Socket Clevis	— SA07 CA06	134.6 (12/7) to 556.5 (18/1)	4/0 -7 str to 556.5-37 str	.52-.88 (13.21-22.35)	15,000 (67)	2	½ (12.70)	70°	2.9 (1.32) 4.2 (1.91) 4.6 (2.09)
PG100LN PG100LS PG100LC	None Socket Clevis	— SA10 CA101	3/0 (6/1) to 666.6 (24.7)	4/0 -7 str to 750-61 str	.50-1.00 (12.70-25.40)	18,000 (80)	2	½ (12.70)	60°	4.5 (2.04) 5.9 (2.68) 6.2 (2.81)

NOTE: Sag eye ultimate strength is 60% of clamp strength without fitting. Rated slip strength as a percentage of conductor RBS varies with conductor type, size and stranding. Minimum slip strength rating on standard strength conductors is 40% RBS (partial tension). For many standard strength conductors, minimum slip strength of this clamp series is 60% RBS (normal tension). Consult factory for slip strength test data on specific clamp and conductor combinations. Recommended torque on U-bolts: ⅜" — 240 in-lb, ½" — 480 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

(1) RUS Listed

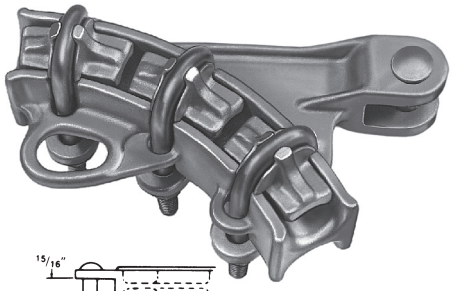
Quadrant Strain Clamp Aluminum

ALUMINUM
AR1/AR2

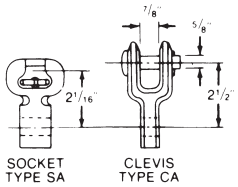
These clamps are used primarily for deadending aluminum substation cable bus.

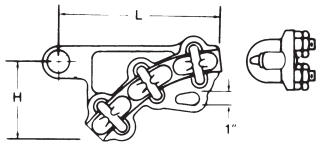
During installation the cable will slide free under the U- bolts, or if preferred, U-bolts may be removed and cable laid in clamp grooves from the side.

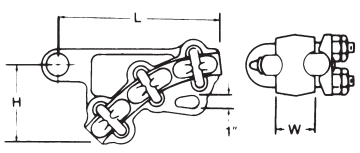
These clamps are compact for greatest phase clearance.



Material: Body and Keeper – *aluminum alloy*
Hardware – *galvanized steel*
Sockets and Clevises – *galvanized ductile iron*
Cotter Pin – #302 *stainless steel*







Product Data and Conductor Size

Catalog Number	Fitting		Clamping Range			Ultimate Body Strength lbs. (kn)	U-Bolts		Dimensions Inches (mm)			Approx. Weight Each lb (kg)
	Type	Catalog Number	ACSR	Aluminum	Inches (mm)		No	Size Inches (mm)	L	W	H	
AR1100N AR1100S AR1100C	None Socket Clevis	-- SA06 CA06	477 (18/1) to 874.5 (54/7)	500 to 1000 MCM	.811-1.152 (20.60-29.26)	15,000 (67)	3	1/2 (12.70)	9-1/8 (231.78)	--	3-7/8 (98.43)	3.5 (1.59) 4.8 (2.18) 5.2 (2.36)
AR1150N AR1150S AR1150C	None Socket Clevis	-- SA06 CA06	900 (54/7) to 1351.5 (45/7)	1000 to 1500 MCM	1.150-1.412 (29.21-35.86)	15,000 (67)	3	5/8 (15.88)	10-1/2 (266.70)	--	4-3/8 (111.13)	5.2 (2.36) 6.5 (2.95) 6.9 (3.13)
AR1200N AR1200S AR1200C	None Socket Clevis	-- SA06 CA06	1351.5 (45/7) to 1780 (84/19)	1500 to 2000 MCM	1.411-1.632 (35.84-41.45)	15,000 (67)	3	5/8 (15.88)	12-3/4 (323.85)	--	5 (127)	6.0 (2.72) 7.3 (3.31) 7.7 (3.49)
AR2025N AR2025S AR2025C	None Socket Clevis	-- SA06 CA06	1/0 (6/1) to 4/0 (6/1)	1/0 to 250-19 Str.	.365-.574 (9.27-14.58)	8,000 (36)	3	3/8 (9.53)	8-1/16 (204.7)	21/32 (16.67)	3-5/32 (80.17)	2.7 (1.22) 4.0 (1.81) 4.4 (2.00)
AR2050N AR2050S AR2050C	None Socket Clevis	-- SA06 CA06	159 (12/7) to 477 (36/1)	250 to 500 MCM	.574-.813 (14.58-20.65)	10,000 (44)	3	1/2 (12.70)	8-3/4 (222.25)	7/8 (22.23)	3-1/4 (82.55)	3.5 (1.59) 4.8 (2.18) 5.2 (2.36)
AR2100N AR2100S AR2100C	None Socket Clevis	-- SA06 CA06	477 (18/1) to 874.5 (54/7)	500 to 1000 MCM	.811-1.152 (20.60-29.26)	15,000 (67)	3	1/2 (12.70)	9-1/8 (231.78)	1-3/16 (30.16)	3-7/8 (98.43)	4.2 (1.91) 5.5 (2.49) 5.9 (2.68)
AR2150N AR2150S AR2150C	None Socket Clevis	-- SA06 CA06	900 (54/7) to 1351.5 (45/7)	1000 to 1500 MCM	1.150-1.412 (29.21-35.86)	15,000 (67)	3	5/8 (15.88)	10-1/2 (266.70)	1-21/32 (42.06)	4-3/8 (111.13)	7.5 (3.40) 8.8 (3.99) 9.2 (4.17)
AR2200N AR2200S AR2200C	None Socket Clevis	-- SA06 CA06	1351.5 (54/19) to 1780 (84/19)	1500 to 2000 MCM	1.411-1.630 (35.84-41.40)	15,000 (67)	3	5/8 (15.88)	12-3/4 (323.85)	2-3/32 (53.18)	5 (127)	8.5 (3.86) 9.8 (4.45) 10.2 (4.63)

NOTES: (1) Sag Eye Ultimate Strength is 60% of Ultimate Body Strength without fitting.
(2) Rated slip strength as a % of conductor RBS varies with conductor type, size and stranding.
Minimum slip strength rating on standard strength conductors is 40% RBS (Partial Tension).
For many standard strength conductors, minimum slip strength of this clamp series is 60% RBS (Normal Tension).
(Consult factory for slip strength test data on specific clamp & conductor combinations.)
(3) Recommended torque on u-bolts: 3/8" -- 240 in-lbs., 1/2" -- 480 in-lbs.
(4) Bolt and Nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

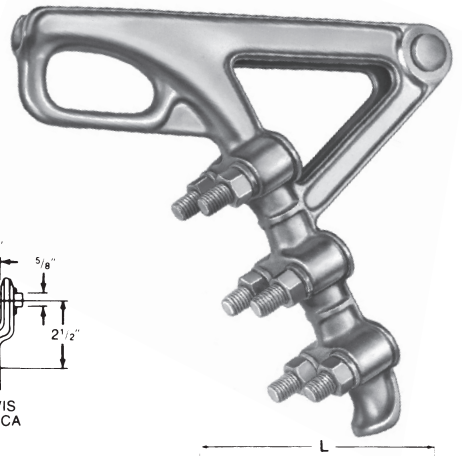
Quadrant Strain Clamp Bronze

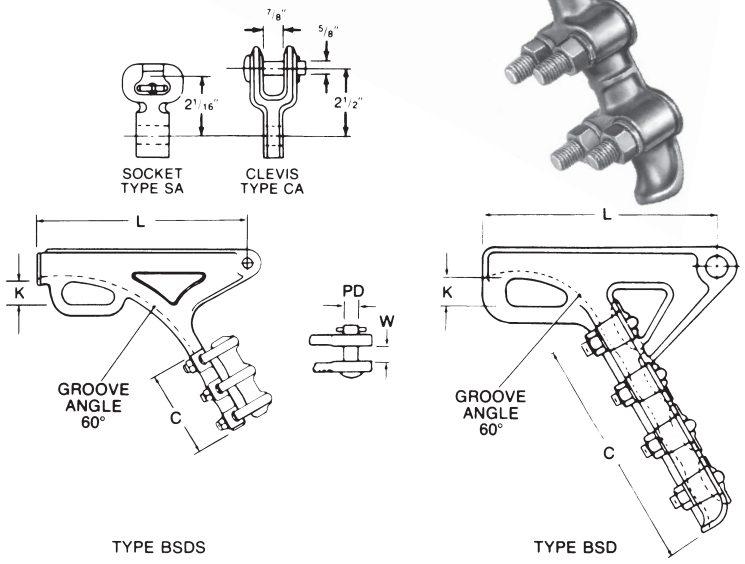
BRONZE

BSD

For heavy duty application using copper or Copperweld® conductor.

Material: Body – *high strength aluminum bronze alloy*
Keeper – *electrical bronze*
Hardware – *galvanized steel*
Sockets and Clevises – *galvanized ductile iron*





Product Data and Conductor Size

Catalog Number	Dimensions Inches (mm)				
	L	W	C	K	PD
BSD55	10 (254)	11/16 (17.46)	7-1/2 (190.50)	1-1/4 (31.75)	5/8 (15.88)
BSD68	11 (279.40)	3/4 (19.05)	9-1/2 (241.30)	1-5/16 (33.34)	5/8 (15.88)
BSD84	12 (304.80)	1 (25.40)	12 (304.80)	1-1/4 (31.75)	5/8 (15.88)
BSD112	13-1/8 (333.38)	1-3/8 (34.93)	8-1/4 (209.60)	1-1/2 (38.10)	3/4 (19.05)
BSD130	14 (355.60)	1-7/16 (36.51)	9-1/2 (241.30)	1-23/32 (43.7)	3/4 (19.05)

Product Data and Conductor Size

Catalog Number	Fitting		Clamping Range		Ultimate Body Strength lbs. (kn)	U-Bolts		Approx. Weight Each lb (kg)
	Type	Catalog Number	Copper	Inches (mm)		No	Size Inches (mm)	
BSD55N BSD55S BSD55C	None Socket Clevis	-- SA04 CA04	#4 Sol.-4/0 Str.	.200-.500 (5.08-13.97)	18,000 (80)	3	1/2 (12.70)	6.4 (2.90) 7.7 (3.49) 7.2 (3.27)
BSD68N BSD68S BSD68C	None Socket Clevis	-- SA04 CA04	1/0 Sol.-350-19 Str.	.300-.680 (7.62-17.27)	25,000 (111) 20,000 (89) 18,000 (80)	4	1/2 (12.70)	8.7 (3.95) 10.0 (4.54) 10.0 (4.54)
BSD84N BSD84S BSD84C	None Socket Clevis	-- SA06 CA06	4/0 Str.-500 MCM	.475-.840 (12.07-21.34)	25,000 (111) 25,000 (111) 25,000 (111)	4	1/2 (12.70)	12.7 (5.76) 14.0 (6.35) 14.4 (6.53)
BSD112N BSD112S BSD112C	None Socket Clevis	-- SA1013 CA1013	400-1000 MCM	.710-1.15 (18.03-29.21)	35,000 (156) 30,000 (133) 25,000 (111)	5	1/2 (12.70)	14.8 (6.71) 16.3 (7.39) 16.8 (7.62)
BSD130N BSD130S BSD130C	None Socket Clevis	-- SA1113 CA1013	400-1500 MCM	.710-1.42 (18.03-36.07)	35,000 (156) 30,000 (133) 25,000 (111)	5	5/8 (15.88)	24.5 (11.11) 26.0 (11.79) 26.5 (12.02)

NOTES: (1) Sag Eye Ultimate Strength is 60% of Ultimate Body Strength without fitting.
(2) Rated slip strength as a % of conductor RBS varies with conductor type, size and stranding. Minimum slip strength rating on standard strength conductors is 40% RBS (Partial Tension). For many standard strength conductors, minimum slip strength of this clamp series is 60% RBS (Normal Tension). (Consult factory for slip strength test data on specific clamp & conductor combinations.)
(3) Recommended torque on u-bolts: 1/2" -- 480 in-lbs., 5/8" -- 720 in-lbs.
(4) Bolt and Nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

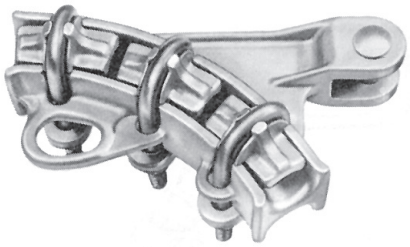
Quadrant Strain Clamp Bronze

BRONZE
BR1/BR2

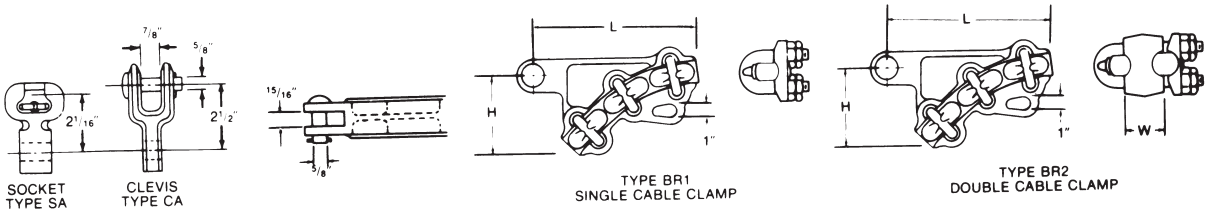
These clamps are used primarily for deadending copper substation cable bus.

When installing, cable will slide freely under the U-bolts. If preferred, U-bolts may be removed and cable laid in clamp grooves from the side.

These clamps are compact for greatest phase clearance.



Material: Body and Keeper – *high strength bronze*
Hardware – *galvanized steel*
Sockets and Clevises – *galvanized ductile iron*
Cotter Pin – #302 *stainless steel*



Product Data and Conductor Size

Catalog Number	Fitting		Clamping Range		Ultimate Body Strength lbs. (kn)	U-Bolts		Dimensions Inches (mm)			Approx. Weight Each lb (kg)
	Type	Catalog Number	Copper	Inches (mm)		No	Size Inches (mm)	L	W	H	
BR1025N BR1025S BR1025C	None Socket Clevis	-- SA06 CA06	2/0 Sol. to 250-19 Str.	.365-.574 (9.27-14.58)	8,000 (36)	3	3/8 (9.53)	8-1/16 (204.79)	--	3-5/32 (80.17)	5.4 (2.45) 6.7 (3.04) 7.1 (3.22)
BR1050N BR1050S BR1050C	None Socket Clevis	-- SA06 CA06	250-19 Str. to 500 MCM	.574-.813 (14.58-20.65)	10,000 (44)	3	1/2 (12.70)	8-7/8 (225.43)	--	3-3/8 (85.73)	7.0 (3.18) 8.3 (3.76) 8.7 (3.95)
BR1100N BR1100S BR1100C	None Socket Clevis	-- SA06 CA06	500 to 1000 MCM	.811-1.152 (20.60-29.26)	15,000 (67)	3	1/2 (12.70)	9-1/8 (231.78)	--	3-7/8 (98.43)	9.2 (4.17) 10.5 (4.76) 10.9 (4.95)
BR1150N BR1150S BR1150C	None Socket Clevis	-- SA06 CA06	1000 to 1500 MCM	1.150-1.412 (29.21-35.86)	15,000 (67)	3	5/8 (15.88)	10-1/2 (266.70)	--	4-3/8 (111.13)	13.4 (6.08) 14.7 (3.67) 16.1 (7.30)
BR1200N BR1200S BR1200C	None Socket Clevis	-- SA06 CA06	1500 MCM to 2000-Str.	1.411-1.632 (35.84-41.40)	15,000 (67)	3	5/8 (15.88)	12-3/4 (323.85)	--	5 (127)	15.0 (6.80) 16.3 (7.39) 16.7 (7.58)
BR2025N BR2025S BR2025C	None Socket Clevis	-- SA06 CA06	2/0 Sol. to 250-19 Str.	.365-.574 (9.27-14.58)	8,000 (36)	3	3/8 (9.53)	8-1/16 (204.79)	21/32 (16.67)	3-5/32 (80.17)	5.7 (2.59) 7.0 (3.18) 7.4 (3.36)
BR2050N BR2050S BR2050C	None Socket Clevis	-- SA06 CA06	250-19 Str. to 500 MCM	.574-.813 (14.58-20.65)	10,000 (44)	3	1/2 (12.70)	8-3/4 (222.25)	7/8 (22.23)	3-1/4 (82.55)	10.0 (4.54) 11.3 (5.13) 11.7 (5.31)
BR2100N BR2100S BR2100C	None Socket Clevis	-- SA06 CA06	500 to 1000 MCM	.811-1.152 (20.60-29.26)	15,000 (67)	3	1/2 (12.70)	9-1/8 (231.78)	1-3/16 (30.16)	3-7/8 (98.43)	14.0 (6.35) 15.3 (6.95) 15.7 (7.12)

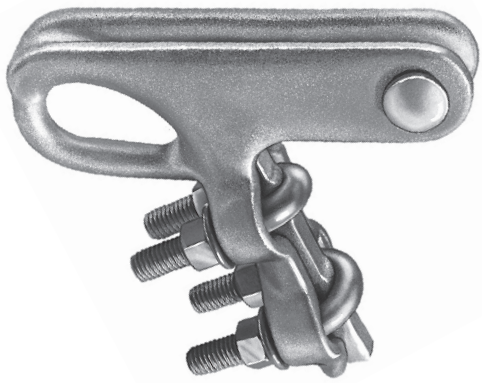
NOTES: (1) Sag Eye Ultimate Strength is 60% of Ultimate Body Strength without fitting.
(2) Rated slip strength as a % of conductor RBS varies with conductor type, size and stranding.
Minimum slip strength rating on standard strength conductors is 40% RBS (Partial Tension).
For many standard strength conductors, minimum slip strength of this clamp series is 60% RBS (Normal Tension).
(Consult factory for slip strength test data on specific clamp & conductor combinations.)
(3) Recommended torque on u-bolts: 3/8" -- 240 in-lbs., 1/2" -- 480 in-lbs.
(4) Bolt and Nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

Quadrant Strain Clamp Ductile Iron

DUCTILE IRON
SWDE/MD

For deadending static wires. May be used to deadend copper or Copperweld® phase conductors. Magnetic induction heating will occur.

Material: Body and Keeper – *galvanized ductile iron*
Sockets and Clevises – *galvanized ductile iron*
Cotter Pin – *stainless steel*



Product Data and Conductor Size

Catalog Number	Dimensions Inches (mm)			
	L	H	C	W
MD52N MD52S MD52C	2 25/32 (70.61)	4 3/32 (103.89)	2 1/8 (54.10)	5/8 (15.88)
SWDE46N SWDE46S SWDE46C	6 (152.40)	5 1/2 (139.70)	4 3/8 (111.12)	5/8 (15.88)
SWDE55N SWDE55S SWDE55C	8 (203.20)	8 5/8 (219.08)	7 3/8 (187.33)	11/16 (17.46)
SWDE84N SWDE84S SWDE84C	10 3/4 (273.05)	10 5/8 (270.00)	8 7/16 (214.38)	15/16 (23.88)

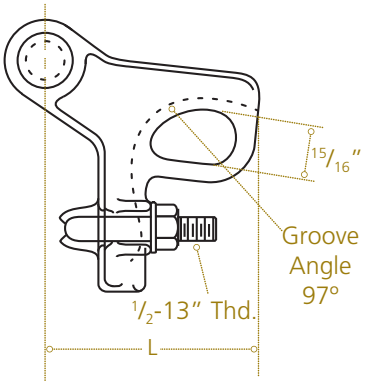
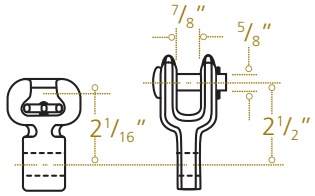


Figure 4



Socket Type SA

Clevis Type CA

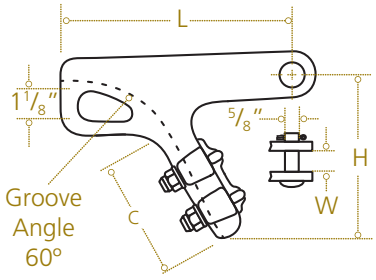


Figure 1

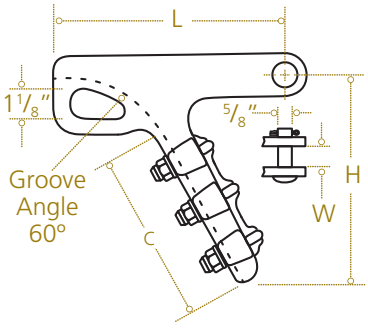


Figure 2

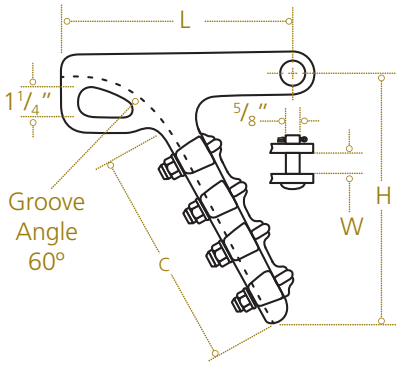


Figure 3

Quadrant Strain Clamp Ductile Iron (*continued*)

Product Data and Cable Size

Catalog Number	Fitting		Figure Number	Clamping Range				Inches (mm)	Ultimate Strength lb (kN)	U-Bolts		Approx Wt Each lb (kg)
	Type	Catalog Number		Galvanized Steel			Copper			No	Size Inches (mm)	
				Diameter	No Str	Grade						
MD52N MD52S MD52C	None Socket Clevis	— SA04 CA04	4	ACSR #6 (6/1) 4/0 (6/1)	—	—	# 6 sol to 4/0 str	.160-.563 (4.06-14.30)	12,000 (53)	1	½ (12.70)	1.9 (.86) 3.2 (1.45) 3.5 (1.59)
SWDE46N SWDE46S SWDE46C	None Socket Clevis	— SA04 CA04	1	3/8 (9.53) 7/16 (11.11) 3/16 (4.76)	7 7 7	Utilities High str Utilities	# 6 str to 4/0 sol	.18-.46 (4.57-11.68)	15,000 (67) 15,000 (67) 15,000 (67)	2	½ (12.70)	4.1 (1.86) 5.4 (2.45) 5.7 (2.49)
SWDE55N SWDE55S SWDE55C	None Socket Clevis	— SA04 CA04	2	1/4 (6.35) 9/32 (7.14) 5/16 (7.94) 3/8 (9.53) 7/16 (11.11) 1/2 (12.70)	7 7 7	All Grades Within Clamping And	# 4 (7) to 4/0 (19)	.22-.55 (5.59-13.97)	19,000 (85) 18,000 (80) 18,000 (80)	3	½ (12.70)	6.0 (3.08) 8.0 (3.63) 8.4 (3.81)
SWDE84N SWDE84S SWDE84C	None Socket Clevis	— SA07 CA06	3	3/8 (9.53) through 3/4 (19.05)	7 7 7	Strength Rating	2/0 sol to 500 str	.36-.84 (8.89-21.34)	30,000 (133) 30,000 (133) 25,000 (111)	4	½ (12.70)	11.0 (4.99) 12.35 (5.60) 12.7 (5.76)

NOTE: Sag eye ultimate strength is 60% of clamp strength without fitting. Rated slip strength as a percentage of conductor RBS varies with cable size and stranding. Minimum slip strength on standard shield wire cables is 40% RBS (partial tension). For many shield wire cables, minimum slip strength of this clamp series is 60% RBS (normal tension). Consult factory for slip strength test data on specific clamp and conductor combinations. Recommended torque on U-bolts: ½" — 480 in-lb. Bolt and nut may be substituted for clevis pin by adding suffix "BNK" to catalog number.

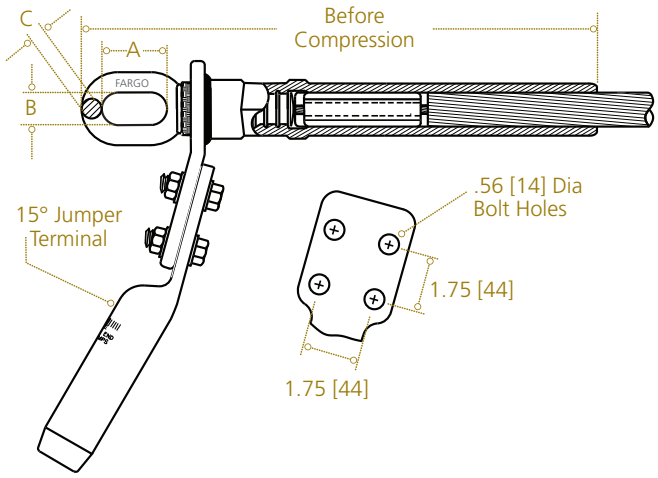
Uni-Grip® (One Die) Eye Type, Single Tongue ACSR Conductors

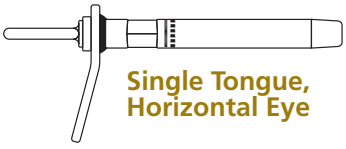
ALUMINUM/STEEL
A01/A03

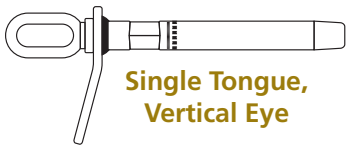
Full tension deadend assembly for ACSR conductors consists of a prefilled aluminum deadend body precompressed onto a steel eye, a prefilled 15° jumper terminal, mounting hardware and core gripping unit. Uni-Grip Deadends and Jumper terminals for conductors 1.00 inch diameter or larger are EHV rated.

Material: Body – *seamless extruded aluminum alloy tube*
Eye – *galvanized forged steel*
Terminal – *seamless extruded aluminum alloy tube*
Hardware – *aluminum alloy*

IDENTIFICATION:
DEADEND & TERMINAL:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code
CORE GRIPPING UNIT:
Conductor, Size & Stranding




Single Tongue, Horizontal Eye


Single Tongue, Vertical Eye

Product Data and Conductor Size

Vertical Eye Catalog Number	Horizontal Eye Catalog Number	Kcmil	Stranding AL/ST	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	A	B	C	Pad Width	Bolt Holes	Die Size	Minimum Press Size Tons
A010710	A030710	266.8	26/7	Partridge	0.642	12.2 (310)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	07CD	12
A010812	A030812	336.4	18/1	Merlin	0.684	13.2 (336)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	08CD	12
A010813	A030813	336.4	26/7	Linnet	0.72	13.2 (336)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	08CD	12
A010914	A030914	336.4	30/7	Oriole	0.741	13.2 (336)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	09CD	12
A010815	A030815	397.5	18/1	Chickadee	0.743	13.2 (336)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	08CD	12
A010917	A030917	397.5	26/7	Ibis	0.783	14.0 (356)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
A010919	A030919	477.0	18/1	Pelican	0.814	14.0 (356)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
A010920	A030920	477.0	24/7	Flicker	0.846	14.0 (356)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
A0110211	A0310211	477.0	26/7	Hawk	0.858	14.9 (378)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60

Product Data and Conductor Size (*continued*)

Vertical Eye Catalog Number	Horizontal Eye Catalog Number	Kcmil	Stranding AL/ST	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	A	B	C	Pad Width	Bolt Holes	Die Size	Minimum Press Size Tons
A011122	A031122	477.0	30/7	Hen	0.883	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A011023	A031023	556.5	18/1	Osprey	0.879	14.9 (378)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
A011024	A031024	556.5	24/7	Parakeet	0.914	14.9 (378)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
A011025	A031025	556.5	26/7	Dove	0.927	14.9 (378)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
A011126	A031126	556.5	30/7	Eagle	0.953	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A011127	A031127	605.0	24/7	Peacock	0.953	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A011128	A031128	605.0	26/7	Squab	0.966	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A011030	A031030	636.0	36/1	Swift	0.93	14.9 (378)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
A011031	A031031	636.0	18/1	Kingbird	0.94	14.9 (378)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
A011132	A031132	636.0	24/7	Rook	0.977	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A011133	A031133	636.0	26/7	Grosbeak	0.99	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A011234	A031234	636.0	30/19	Egret	1.019	17.2 (436)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
A011136	A031136	666.6	24/7	Flamingo	1	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A011137	A031137	666.6	26/7	Gannett	1.014	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A011138	A031138	715.5	24/7	Stilt	1.036	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A011239	A031239	715.5	26/7	Starling	1.051	17.2 (436)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
A011141	A031141	795.0	36/1	Coot	1.04	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A011242	A031242	795.0	45/7	Tern	1.063	17.2 (436)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
A0112431	A0312431	795.0	24/7	Cuckoo	1.092	17.2 (436)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
A0112441	A0312441	795.0	54/7	Condor	1.092	17.2 (436)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
A0112451	A0312451	795.0	26/7	Drake	1.108	17.2 (436)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
A011346DE	A031346	795.0	30/19	Mallard	1.14	19.6 (496)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
A011247	A031247	900.0	45/7	Ruddy	1.131	17.2 (436)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60

Product Data and Conductor Size (*continued*)

Vertical Eye Catalog Number	Horizontal Eye Catalog Number	Kcmil	Stranding AL/ST	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	A	B	C	Pad Width	Bolt Holes	Die Size	Minimum Press Size Tons
A011348	A031348	900.0	54/7	Canary	1.162	19.6 (496)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
A011350	A031350	954.0	45/7	Rail	1.165	19.6 (496)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
A0113511	A0313511	954.0	54/7	Cardinal	1.196	19.6 (496)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
A011353	A031353	1033.5	45/7	Ortolan	1.212	19.6 (496)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
A011454	A031454	1033.5	54/7	Curlew	1.245	20.6 (522)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	14CD	60
A011455	A031455	1113.0	45/7	Bluejay	1.259	20.6 (522)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	14CD	60
A011456DE	A031456	1113.0	54/19	Finch	1.293	20.6 (522)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	14CD	60
A011457	A031457	1192.5	45/7	Bunting	1.302	20.6 (522)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	14CD	60
A011558	A031558	1192.5	54/19	Grackle	1.338	21.5 (545)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
A0115591	A0315591	1272.0	45/7	Bittern	1.345	21.5 (545)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
A011560	A031560	1272.0	54/19	Pheasant	1.382	21.5 (545)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
A011561	A031561	1351.5	45/7	Dipper	1.386	21.5 (545)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
A011562	A031562	1351.5	54/19	Martin	1.424	21.5 (545)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
A011663	A031663	1431.0	45/7	Bobolink	1.427	23.5 (596)	2.5 (63)	1.2 (30)	.94 (23)	3.0 (76)	4	16CD	60
A011667	A031667	1590.0	45/7	Lapwing	1.504	23.5 (596)	2.5 (63)	1.2 (30)	.94 (23)	3.0 (76)	4	16CD	60
A0117681	A0317681	1590.0	54/19	Falcon	1.545	24.4 (621)	2.5 (63)	1.2 (30)	.94 (23)	4.0 (101)	4	17CD	60
A011769	A031769	1780.0	84/19	Chukar	1.602	24.4 (621)	2.5 (63)	1.2 (30)	.94 (23)	4.0 (101)	4	17CD	60
A011871	A031871	2034.5	72/7	Mockingbird	1.681	25.3 (643)	2.5 (63)	1.2 (30)	.94 (23)	4.0 (101)	4	18CD	100
A011972	A031972	2156.0	84/19	Bluebird	1.762	25.3 (643)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	19CD	100
A011973	A031973	2167.0	72/7	Kiwi	1.735	25.3 (643)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	19CD	100
A011974	A031974	2312.0	76/19	Thrasher	1.802	25.3 (643)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	19CD	100
A012075	A032075	2515.0	76/19	Joree	1.808	28.7 (729)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	20CD	100

NOTE: For XL repair deadend add suffix "XL" and repair cutoff length in inches. Example: A0112451XL24. Suffix "NT" omits jumper terminal. Example: A0112451NT. Suffix "NPNT" omits both jumper terminal and deadend tongue. Example: A0112451NPNT. Consult factory for Self-Dampening (SD),Trapezoidal (TW) and Metric ACSR Conductors.

Uni-Grip® (One Die) Eye Type, Double Tongue ACSR Conductors

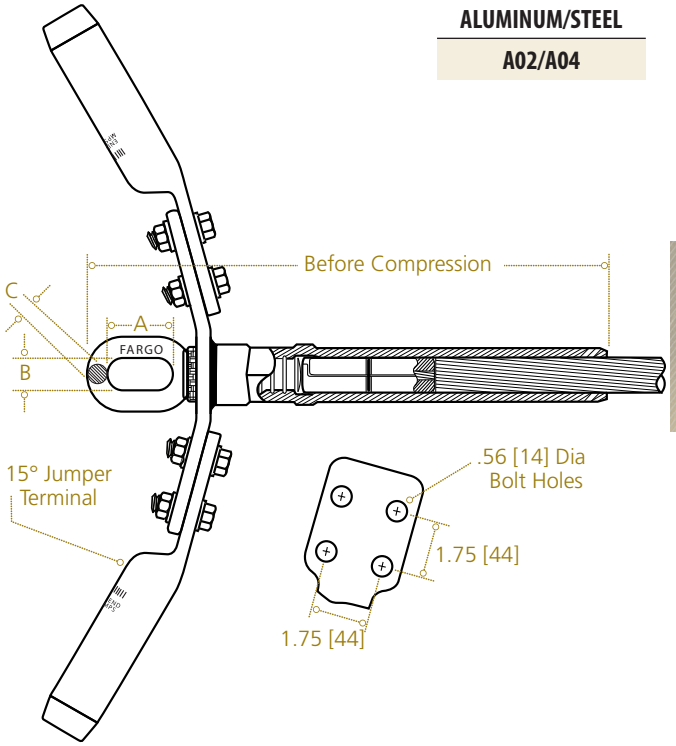
ALUMINUM/STEEL
A02/A04

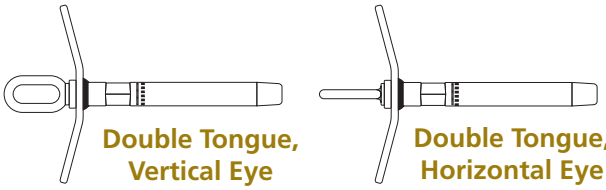
Full tension deadend assembly for ACSR conductors consists of a prefilled aluminum deadend body precompressed onto a steel eye, two prefilled 15° jumper terminals, mounting hardware and core wire gripping unit.

Material: Body – *seamless extruded aluminum alloy tube*
Eye – *galvanized forged steel*
Terminal – *seamless extruded aluminum alloy tube*

IDENTIFICATION:
DEADEND & TERMINAL:
- Conductor Type & Diameter Range
- Die Size, Minimum Press Size
- Part Number, Date Code

CORE GRIPPING UNIT:
- Conductor, Size & Stranding





Double Tongue, Vertical Eye

Double Tongue, Horizontal Eye

Product Data and Conductor Size

Vertical Eye Catalog Number	Horizontal Eye Catalog Number	Kcmil	Stranding AL/ST	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	A	B	C	Pad Width	Bolt Holes	Die Size	Minimum Press Size Tons
A020710	A040710	266.8	26/7	Partridge	0.642	12.2 (310)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	07CD	12
A020812	A040812	336.4	18/1	Merlin	0.684	13.2 (336)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	08CD	12
A020813	A040813	336.4	26/7	Linnet	0.72	13.2 (336)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	08CD	12
A020914	A040914	336.4	30/7	Oriole	0.741	13.2 (336)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	09CD	12
A020815	A040815	397.5	18/1	Chickadee	0.743	13.2 (336)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	08CD	12
A020917	A040917	397.5	26/7	Ibis	0.783	14.0 (356)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
A020919	A040919	477.0	18/1	Pelican	0.814	14.0 (356)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	60

Product Data and Conductor Size (*continued*)

Vertical Eye Catalog Number	Horizontal Eye Catalog Number	Kcmil	Stranding AL/ST	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	A	B	C	Pad Width	Bolt Holes	Die Size	Minimum Press Size Tons
A020920	A040920	477.0	24/7	Flicker	0.846	14.0 (356)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	60
A0210211	A0410211	477.0	26/7	Hawk	0.858	14.9 (378)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
A021122	A041122	477.0	30/7	Hen	0.883	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A021023	A041023	556.5	18/1	Osprey	0.879	14.9 (378)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
A021024	A041024	556.5	24/7	Parakeet	0.914	14.9 (378)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
A021025	A041025	556.5	26/7	Dove	0.927	14.9 (378)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
A021126	A041126	556.5	30/7	Eagle	0.953	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A021127	A041127	605.0	24/7	Peacock	0.953	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A021128	A041128	605.0	26/7	Squab	0.966	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A021030	A041030	636.0	36/1	Swift	0.93	14.9 (378)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
A021031	A041031	636.0	18/1	Kingbird	0.94	14.9 (378)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
A021132	A041132	636.0	24/7	Rook	0.977	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A021133	A041133	636.0	26/7	Grosbeak	0.99	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A021234	A041234	636.0	30/19	Egret	1.019	17.2 (436)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
A021136	A041136	666.6	24/7	Flamingo	1	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A021137	A041137	666.6	26/7	Gannett	1.014	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A021138	A041138	715.5	24/7	Stilt	1.036	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A021239	A041239	715.5	26/7	Starling	1.051	17.2 (436)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
A021141	A041141	795.0	36/1	Coot	1.04	16.3 (413)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
A021242	A041242	795.0	45/7	Tern	1.063	17.2 (436)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
A0212431	A0412431	795.0	24/7	Cuckoo	1.092	17.2 (436)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
A0212441	A0412441	795.0	54/7	Condor	1.092	17.2 (436)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
A0212451	A0412451	795.0	26/7	Drake	1.108	17.2 (436)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60

Product Data and Conductor Size (*continued*)

Vertical Eye Catalog Number	Horizontal Eye Catalog Number	Kcmil	Stranding AL/ST	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	A	B	C	Pad Width	Bolt Holes	Die Size	Minimum Press Size Tons
A021346	A041346	795.0	30/19	Mallard	1.14	19.6 (496)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
A021247	A041247	900.0	45/7	Ruddy	1.131	17.2 (436)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
A021348	A041348	900.0	54/7	Canary	1.162	19.6 (496)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
A021350	A041350	954.0	45/7	Rail	1.165	19.6 (496)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
A0213511	A0413511	954.0	54/7	Cardinal	1.196	19.6 (496)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
A021353	A041353	1033.5	45/7	Ortolan	1.212	19.6 (496)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
A021454	A041454	1033.5	54/7	Curlew	1.245	20.6 (522)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	14CD	60
A021455	A041455	1113.0	45/7	Bluejay	1.259	20.6 (522)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	14CD	60
A021456	A041456	1113.0	54/19	Finch	1.293	20.6 (522)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	14CD	60
A021457	A041457	1192.5	45/7	Bunting	1.302	20.6 (522)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	14CD	60
A021558	A041558	1192.5	54/19	Grackle	1.338	21.5 (545)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
A0215591	A0415591	1272.0	45/7	Bittern	1.345	21.5 (545)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
A021560	A041560	1272.0	54/19	Pheasant	1.382	21.5 (545)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
A021561	A041561	1351.5	45/7	Dipper	1.386	21.5 (545)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
A021562	A041562	1351.5	54/19	Martin	1.424	21.5 (545)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
A021663	A041663	1431.0	45/7	Bobolink	1.427	23.5 (596)	2.5 (63)	1.2 (30)	.94 (23)	3.0 (76)	4	16CD	60
A021664	A041664	1431.0	54/19	Plover	1.465	23.5 (596)	2.5 (63)	1.2 (30)	.94 (23)	3.0 (76)	4	16CD	60
A021667	A041667	1590.0	45/7	Lapwing	1.504	23.5 (596)	2.5 (63)	1.2 (30)	.94 (23)	3.0 (76)	4	16CD	60
A0217681	A0417681	1590.0	54/19	Falcon	1.545	24.4 (621)	2.5 (63)	1.2 (30)	.94 (23)	4.0 (101)	4	17CD	60
A021769	A041769	1780.0	84/19	Chukar	1.602	24.4 (621)	2.5 (63)	1.2 (30)	.94 (23)	4.0 (101)	4	17CD	60
A021871	A041871	2034.5	72/7	Mockingbird	1.681	25.3 (643)	2.5 (63)	1.2 (30)	.94 (23)	4.0 (101)	4	18CD	100
A021972	A041972	2156.0	84/19	Bluebird	1.762	27.7 (704)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	19CD	100
A021973	A041973	2167.0	72/7	Kiwi	1.735	27.7 (704)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	19CD	100
A021974	A041974	2312.0	76/19	Thrasher	1.802	27.7 (704)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	19CD	100
A022075	A042075	2515.0	76/19	Joree	1.808	28.7 (729)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	20CD	100

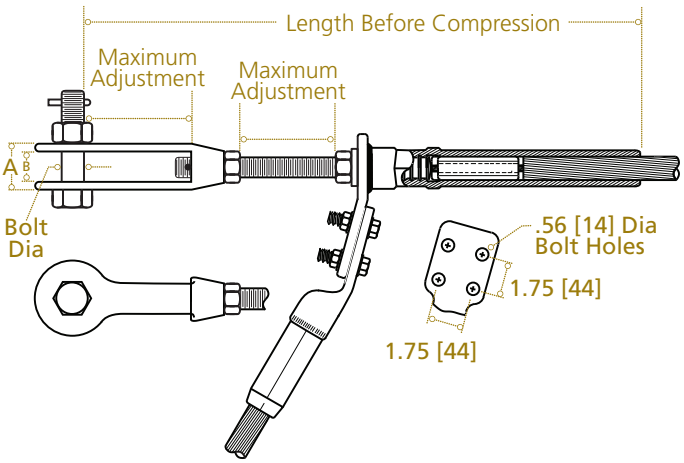
Uni-Grip® (One Die) Adjustable Clevis Type ACSR Conductors

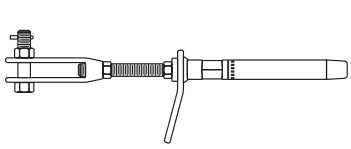
ALUMINUM/STEEL
A09/A10

Full tension deadend assembly for ACSR conductors consists of a prefilled aluminum deadend body precompressed onto a steel adjustable clevis. Single tongue deadends are supplied with one jumper terminal and double tongue deadends are supplied with two jumper terminals, mounting hardware and core wire gripping unit.

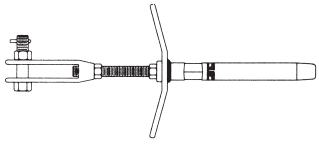
Material: Body – *seamless extruded aluminum alloy tube*
Clevis – *galvanized forged steel*
Terminal – *seamless extruded aluminum alloy tube*
Terminal Hardware – *aluminum alloy*
Cotter Pin – *stainless steel*

IDENTIFICATION:
DEADEND & TERMINAL:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code
CORE GRIPPING UNIT:
Conductor Type, Size & Stranding





Single Tongue, Adjustable Clevis



Double Tongue, Adjustable Clevis

Product Data and Conductor Size

Single Tongue Catalog Number	Double Tongue Catalog Number	Kcmil	Stranding AL/ST	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	A	B	Max Adjust	Bolt Diameter	Single Tongue Pad Width	Bolt Holes	Die Size	Min Press Size Tons
A090812	A100812	336.4	18/1	Merlin	0.684	19.3 (491)	1.7 (43)	1.1 (28)	2.9 (73)	.62 (16)	2.0 (50)	2	08CD	12
A090813	A100813	336.4	26/7	Linnet	0.72	19.3 (491)	1.7 (43)	1.1 (28)	2.9 (73)	.62 (16)	2.0 (50)	2	08CD	12
A090914	A100914	336.4	30/7	Oriole	0.741	19.3 (491)	1.7 (43)	1.1 (28)	2.9 (73)	.62 (16)	2.0 (50)	2	09CD	12
A090815	A100815	397.5	18/1	Chickadee	0.743	19.3 (491)	1.7 (43)	1.1 (28)	2.9 (73)	.62 (16)	2.0 (50)	2	08CD	12
A090917	A100917	397.5	26/7	Ibis	0.783	20.2 (512)	1.7 (43)	1.1 (28)	2.9 (73)	.75 (19)	2.0 (50)	2	09CD	12
A090919	A100919	477.0	18/1	Pelican	0.814	20.2 (512)	1.7 (43)	1.1 (28)	2.9 (73)	.62 (16)	2.0 (50)	2	09CD	12
A090920	A100920	477.0	24/7	Flicker	0.846	20.2 (512)	1.7 (43)	1.1 (28)	2.9 (73)	.62 (16)	2.0 (50)	2	09CD	12

Product Data and Conductor Size (*continued*)

Single Tongue Catalog Number	Double Tongue Catalog Number	Kcmil	Stranding AL/ST	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	A	B	Max Adjust	Bolt Diameter	Single Tongue Pad Width	Bolt Holes	Die Size	Min Press Size Tons
A0910211	A1010211	477.0	26/7	Hawk	0.858	21.0 (534)	1.7 (43)	1.1 (28)	2.8 (71)	.75 (19)	2.0 (50)	2	10CD	60
A091122	A101122	477.0	30/7	Hen	0.883	24.3 (617)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
A091023	A101023	556.5	18/1	Osprey	0.879	21.0 (534)	1.7 (43)	1.1 (28)	2.8 (71)	.75 (19)	2.0 (50)	2	10CD	60
A091024	A101024	556.5	24/7	Parakeet	0.914	21.0 (534)	1.7 (43)	1.1 (28)	2.8 (71)	.75 (19)	2.0 (50)	2	10CD	60
A091025	A101025	556.5	26/7	Dove	0.927	21.0 (534)	1.7 (43)	1.1 (28)	2.8 (71)	.75 (19)	2.0 (50)	2	10CD	60
A091126	A101126	556.5	30/7	Eagle	0.953	24.3 (617)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
A091127	A101127	605.0	24/7	Peacock	0.953	24.3 (617)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
A091128	A101128	605.0	26/7	Squab	0.966	24.3 (617)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
A091030	A101030	636.0	36/1	Swift	0.93	21.0 (534)	1.7 (43)	1.1 (28)	2.8 (71)	.75 (19)	2.0 (50)	2	10CD	60
A091031	A101031	636.0	18/1	Kingbird	0.94	21.0 (534)	1.7 (43)	1.1 (28)	2.8 (71)	.75 (19)	2.0 (50)	2	10CD	60
A091132	A0101132	636.0	24/7	Rook	0.977	24.3 (617)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
A091133	A101133	636.0	26/7	Grosbeak	0.99	24.3 (617)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
A091234	A101234	636.0	30/19	Egret	1.019	25.2 (640)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	12CD	60
A091136	A101136	666.6	24/7	Flamingo	1	24.3 (617)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
A091137	A101137	666.6	26/7	Gannett	1.014	24.3 (617)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
A091138	A101138	715.5	24/7	Stilt	1.036	24.3 (617)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
A091239	A101239	715.5	26/7	Starling	1.051	25.2 (640)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	12CD	60
A091141	A101141	795.0	36/1	Coot	1.04	24.3 (617)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
A091242	A101242	795.0	45/7	Tern	1.063	25.2 (640)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	12CD	60
A0912431	A0912431	795.0	24/7	Cuckoo	1.092	25.2 (640)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	12CD	60
A0912441	A1012441	795.0	54/7	Condor	1.092	25.2 (640)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	12CD	60
A0912451	A1012451	795.0	26/7	Drake	1.108	25.2 (640)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	12CD	60
A091346	A101346	795.0	30/19	Mallard	1.14	27.0(686)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	13CD	60
A091247	A101247	900.0	45/7	Ruddy	1.131	25.2 (640)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	12CD	60

Product Data and Conductor Size (*continued*)

Single Tongue Catalog Number	Double Tongue Catalog Number	Kcmil	Stranding AL/ST	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	A	B	Max Adjust	Bolt Diameter	Single Tongue Pad Width	Bolt Holes	Die Size	Min Press Size Tons
A091348	A101348	900.0	54/7	Canary	1.162	27.0 (686)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	13CD	60
A091350	A101350	954.0	45/7	Rail	1.165	27.0 (686)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	13CD	60
A0913511	A1013511	954.0	54/7	Cardinal	1.196	27.0 (686)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	13CD	60
A091353	A101353	1033.5	45/7	Ortolan	1.212	27.0 (686)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	13CD	60
A091454	A101454	1033.5	54/7	Curlew	1.245	28.0 (712)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	14CD	60
A091455	A0101455	1113.0	45/7	Bluejay	1.259	28.0 (712)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	14CD	60
A091456	A101456	1113.0	54/19	Finch	1.293	28.0 (712)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	14CD	60
A091457	A101457	1192.5	45/7	Bunting	1.302	28.0 (712)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	14CD	60
A091558	A101558	1192.5	54/19	Grackle	1.338	33.4 (849)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	15CD	60
A0915591	A1015591	1272.0	45/7	Bittern	1.345	33.4 (849)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	15CD	60
A091560	A101560	1272.0	54/19	Pheasant	1.382	33.4 (849)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	15CD	60
A091561	A101561	1351.5	45/7	Dipper	1.386	33.4 (849)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	15CD	60
A091562	A101562	1351.5	54/19	Martin	1.424	33.4 (849)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	15CD	60
A091663	A101663	1431.0	45/7	Bobolink	1.427	33.9 (862)	2.4 (61)	1.6 (40)	4.4 (111)	1.1 (28)	3.0 (76)	4	16CD	60
A091667	A101667	1590.0	45/7	Lapwing	1.504	33.9 (862)	2.4 (61)	1.6 (40)	4.4 (111)	1.1 (28)	3.0 (76)	4	16CD	60
A0917681	A1017681	1590.0	54/19	Falcon	1.545	35.1 (891)	2.4 (61)	1.6 (40)	4.4 (111)	1.1 (28)	4.0 (101)	4	17CD	60
A091769	A101769	1780.0	84/19	Chukar	1.602	35.1 (891)	2.4 (61)	1.6 (40)	4.4 (111)	1.1 (28)	4.0 (101)	4	17CD	60
A091871	A101871	2034.5	72/7	Mockingbird	1.681	35.8 (909)	2.4 (61)	1.6 (40)	4.4 (111)	1.1 (28)	4.0 (101)	4	18CD	100
A091972	A101972	2156.0	84/19	Bluebird	1.762	36.4 (925)	3.1 (79)	2.0 (50)	4.4 (111)	1.1 (28)	4.0 (101)	4	19CD	100
A091973	A101973	2167.0	72/7	Kiwi	1.735	36.4 (925)	3.1 (79)	2.0 (50)	4.4 (111)	1.1 (28)	4.0 (101)	4	19CD	100
A091974	A101974	2312.0	76/19	Thrasher	1.802	36.4 (925)	3.1 (79)	2.0 (50)	4.4 (111)	1.1 (28)	4.0 (101)	4	19CD	100
A092075	A102075	2515.0	76/19	Joree	1.808	37.4 (949)	3.1 (79)	2.0 (50)	4.4 (111)	1.1 (28)	4.0 (101)	4	20CD	100

NOTE: For XL repair deadend add suffix "XL" and repair cutoff length in inches. Example: A0912451XL24. Suffix "NT" omits jumper terminal. Example: A0912451NT. Suffix "NPNT" omits both jumper terminal and deadend tongue. Example: A0912451NPNT. Consult factory for Self-Dampening (SD), Trapezoidal (TW) conductors and Metric Conductors.

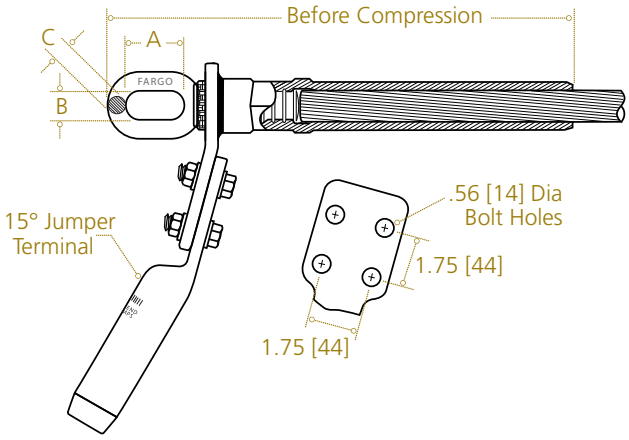
Uni-Grip® (One Die) Eye Type, Single Tongue AAAC and ACAR Conductors

ALUMINUM/STEEL
AB01/AB03

Full tension deadend assembly for AAAC and ACAR conductors consists of a prefilled aluminum deadend body precompressed onto a steel eye, a prefilled 15° jumper terminal and mounting hardware.

Material: Body – *seamless extruded aluminum alloy tube*
Eye – *galvanized forged steel*
Terminal – *seamless extruded aluminum alloy tube*
Hardware – *aluminum alloy*

IDENTIFICATION:
DEADEND & TERMINAL:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code




Single Tongue, Horizontal Eye


Single Tongue, Vertical Eye

Product Data and Conductor Size

Vertical Eye Catalog Number	Horizontal Eye Catalog Number	Conductor Outside Diameter Range Inches	AAAC/ACAR Kcmil Range	Length Before Compression Inches (mm)	A	B	C	Pad Width Inches (mm)	Bolt Holes	Die Size	Minimum Press Size Tons
AB010707	AB030707	0.595-0.680	281.4-312.8	12.2 (310)	2.0 (50)	1.0 (25)	0.41 (10)	1.7 (44)	2	07CD	12
AB010808	AB030808	0.681-0.765	394.5-419.6	13.2 (336)	2.0 (50)	1.0 (25)	0.41 (10)	1.7 (44)	2	08CD	12
AB010909	AB030909	0.766-0.855	465.4-503.6	14.0 (356)	2.0 (50)	1.0 (25)	0.52 (13)	2.2 (56)	2	09CD	12
AB011010	AB031010	0.856-0.950	545.0-657.3	14.9 (378)	2.0 (50)	1.0 (25)	0.52 (13)	2.2 (56)	2	10CD	60
AB011111	AB031111	0.950-1.045	739.8-740.8	16.3 (413)	2.0 (50)	1.0 (25)	0.62 (15)	3.0 (76)	4	11CD	60
AB011212	AB031212	1.026-1.131	833.6-932.6	17.2 (436)	2.0 (50)	1.0 (25)	0.62 (15)	3.0 (76)	4	12CD	60
AB011313	AB031313	1.140-1.235	1000-1127	19.6 (496)	2.5 (63)	1.2 (30)	0.78 (19)	3.0 (76)	4	13CD	60
AB011414	AB031414	1.236-1.330	1172-1300	20.6 (523)	2.5 (63)	1.2 (30)	0.78 (19)	3.0 (76)	4	14CD	60
AB011515	AB031515	1.331-1.425	1361-1500	21.5 (546)	2.5 (63)	1.2 (30)	0.78 (19)	3.0 (76)	4	15CD	60
AB011616	AB031616	1.426-1.520	1534-1703	23.5 (597)	2.5 (63)	1.2 (30)	0.94 (23)	3.0 (76)	4	16CD	60
AB011717	AB031717	1.521-1.615	1750-1933	24.4 (620)	2.5 (63)	1.2 (30)	0.94 (23)	3.0 (76)	4	17CD	100
AB011919	AB031919	1.630-1.805	2000-2300	25.3 (643)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	19CD	100
AB012020	AB032020	1.806-1.900	2493-2500	28.7 (729)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	20CD	100

NOTE: For XL repair deadend add suffix "XL" and repair cutoff length in inches. Example: AB011212XL24. Suffix "NT" omits jumper terminal. Example: AB011212NT. Suffix "NPNT" omits both jumper terminal and deadend tongue. Example: AB011212NPNT.

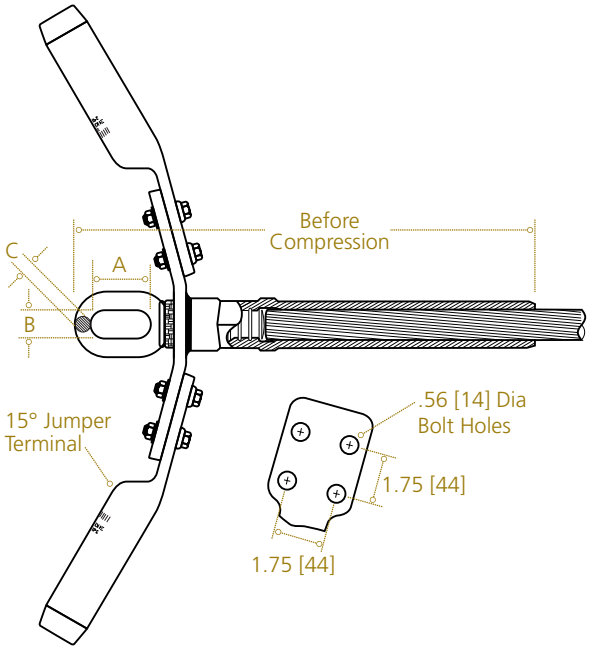
Uni-Grip® (One Die) Eye Type, Double Tongue AAAC and ACAR Conductors

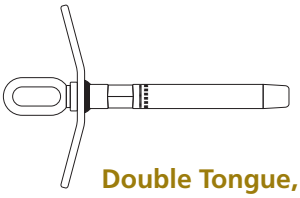
ALUMINUM/STEEL
AB02/AB04

Full tension deadend assembly for AAAC and ACAR conductors consists of a prefilled aluminum deadend body precompressed onto a steel eye, two prefilled 15° jumper terminals and mounting hardware.

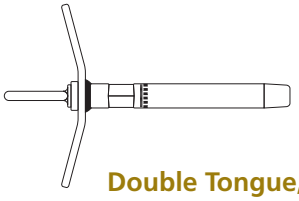
Material: Body – *seamless extruded aluminum alloy tube*
Eye – *galvanized forged steel*
Terminal – *seamless extruded aluminum alloy tube*
Hardware – *aluminum alloy*

IDENTIFICATION:
DEADEND & TERMINAL:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code





Double Tongue, Vertical Eye



Double Tongue, Horizontal Eye

Product Data and Conductor Size

Vertical Eye Catalog Number	Horizontal Eye Catalog Number	Conductor Outside Diameter Range Inches	AAAC/ ACAR Kcmil Range	Length Before Compression Inches (mm)	A	B	C	Pad Width Inches (mm)	Bolt Holes	Die Size	Minimum Press Size Tons
AB020707	AB040707	0.595-0.680	281.4-312.8	12.2 (310)	2.0 (50)	1.0 (25)	0.41 (10)	1.7 (44)	2	07CD	12
AB020808	AB040808	0.681-0.765	394.5-419.6	13.2 (336)	2.0 (50)	1.0 (25)	0.41 (10)	1.7 (44)	2	08CD	12
AB020909	AB040909	0.766-0.855	465.4-503.6	14.0 (356)	2.0 (50)	1.0 (25)	0.52 (13)	2.2 (56)	2	09CD	12
AB021010	AB041010	0.856-0.950	545.0-657.3	14.9 (378)	2.0 (50)	1.0 (25)	0.52 (13)	2.2 (56)	2	10CD	60
AB021111	AB041111	0.950-1.045	739.8-740.8	16.3 (413)	2.0 (50)	1.0 (25)	0.62 (15)	3.0 (76)	4	11CD	60
AB021212	AB041212	1.026-1.131	833.6-932.6	17.2 (436)	2.0 (50)	1.0 (25)	0.62 (15)	3.0 (76)	4	12CD	60
AB021313	AB041313	1.140-1.235	1000-1127	19.6 (496)	2.5 (63)	1.2 (30)	0.78 (19)	3.0 (76)	4	13CD	60
AB021414	AB041414	1.236-1.330	1172-1300	20.6 (523)	2.5 (63)	1.2 (30)	0.78 (19)	3.0 (76)	4	14CD	60
AB021515	AB041515	1.331-1.425	1361-1500	21.5 (546)	2.5 (63)	1.2 (30)	0.78 (19)	3.0 (76)	4	15CD	60
AB021616	AB041616	1.426-1.520	1534-1703	23.5 (597)	2.5 (63)	1.2 (30)	0.94 (23)	3.0 (76)	4	16CD	60
AB021717	AB041717	1.521-1.615	1750-1933	24.4 (620)	2.5 (63)	1.2 (30)	0.94 (23)	3.0 (76)	4	17CD	100
AB021919	AB041919	1.630-1.805	2000-2300	25.3 (643)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	19CD	100
AB022020	AB042020	1.806-1.900	2493-2500	28.7 (729)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	20CD	100

NOTE: For XL repair deadend add suffix "XL" and repair cutoff length in inches. Example: AB041313XL24. Suffix "NT" omits jumper terminal. Example: AB041313NT. Suffix "NPNT" omits both jumper terminal and deadend tongue. Example: AB041313NPNT. Consult factory for Self-Dampening (SD) and Trapezoidal (TW) conductors.

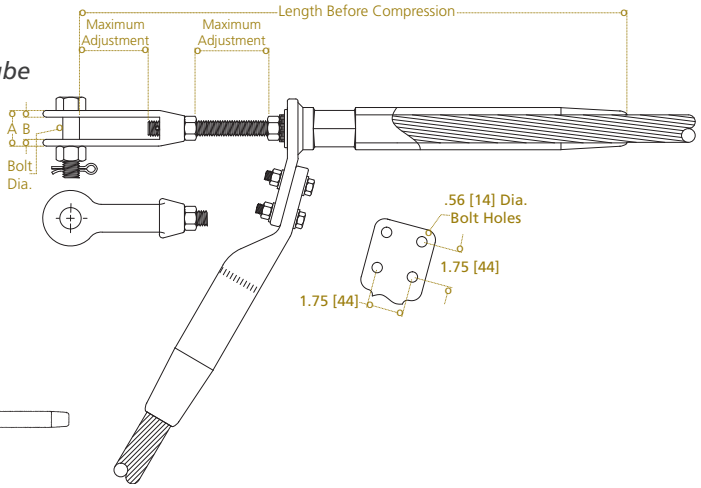
Uni-Grip® (One Die)
Adjustable Clevis Type AAAC and ACAR Conductors

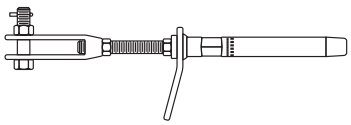
ALUMINUM/STEEL
AB09/AB10

Full tension deadend assembly for AAAC and ACAR conductors consists of a prefilled aluminum deadend body precompressed onto a steel adjustable clevis. Single tongue deadends are supplied with one jumper terminal and double tongue deadends are supplied with two jumper terminals and mounting hardware.

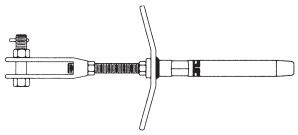
Material: Body – *seamless extruded aluminum alloy tube*
Clevis – *galvanized forged steel*
Terminal – *seamless extruded aluminum alloy tube*
Terminal Hardware – *aluminum alloy*
Cotter Pin – *stainless steel*

IDENTIFICATION:
DEADEND & TERMINAL:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code





Single Tongue, Adjustable Clevis



Double Tongue, Adjustable Clevis

Product Data and Conductor Size

Single Tongue Catalog Number	Double Tongue Catalog Number	Conductor Outside Diameter Range Inches	AAAC/ ACAR Kcmil Range	Length Before Compression Inches (mm)	A	B	Max Adjust	Bolt Diameter	Pad Width Inches (mm)	Bolt Holes	Die Size	Minimum Press Size Tons
AB090808	AB100808	0.681-0.765	394.5-419.6	19.3 (491)	1.7 (43)	1.1 (28)	2.9 (73)	0.62 (16)	1.7 (44)	2	08CD	12
AB090909	AB100909	0.766-0.855	465.4-503.6	20.2 (512)	1.7 (43)	1.1 (28)	2.9 (73)	0.62 (16)	2.2 (56)	2	09CD	12
AB091010	AB101010	0.856-0.950	545.0-657.3	21.0 (534)	1.7 (43)	1.1 (28)	2.8 (71)	0.75 (19)	2.2 (56)	2	10CD	60
AB091111	AB101111	0.950-1.045	739.8-740.8	24.3 (617)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
AB091212	AB101212	1.026-1.131	833.6-932.6	25.2 (640)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	12CD	60
AB091313	AB101313	1.140-1.235	1000-1127	27.0 (686)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	13CD	60
AB091414	AB101414	1.236-1.330	1172-1300	28.0 (712)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	14CD	60
AB091515	AB101515	1.331-1.425	1361-1500	33.4 (849)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	15CD	60
AB091616	AB101616	1.426-1.520	1534-1703	33.9 (862)	2.4 (61)	1.6 (41)	4.4 (111)	1.1 (28)	3.0 (76)	4	16CD	60
AB091717	AB101717	1.521-1.615	1750-1933	35.1 (891)	2.4 (61)	1.6 (41)	4.4 (111)	1.1 (28)	3.0 (76)	4	17CD	100
AB091919	AB101919	1.630-1.805	2000-2300	36.4 (925)	3.1 (79)	2.0 (50)	4.4 (111)	1.1 (28)	4.0 (102)	4	19CD	100
AB092090	AB102020	1.806-1.900	2493-2500	37.4 (949)	3.1 (79)	2.0 (50)	4.4 (111)	1.1 (28)	4.0 (102)	4	20CD	100

NOTE: For XL repair deadend add suffix "XL" and repair cutoff length in inches.Example: AB091212XL24. Suffix "NT" omits jumper terminal. Example: AB091212NT. Suffix "NPNT" omits both jumper terminal and deadend tongue. Example: AB091212NPNT.

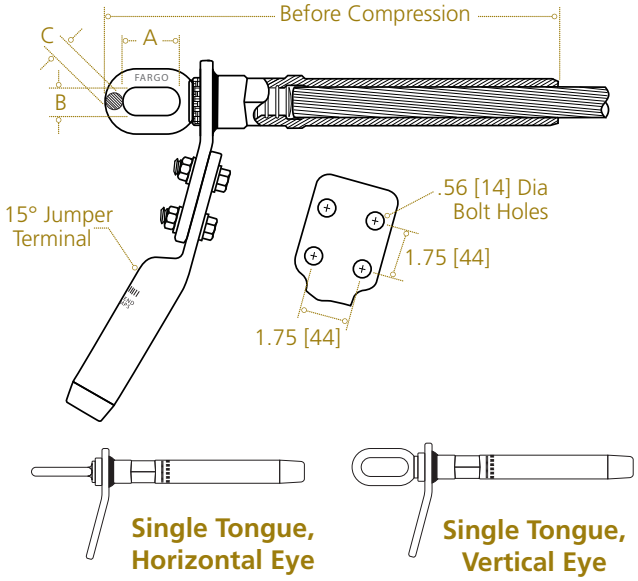
Uni-Grip® (One Die) Eye Type, Single Tongue All Aluminum (AAC) Conductors

ALUMINUM/STEEL
C01/C03

Full tension deadend assembly for All Aluminum (AAC) conductors consists of a prefilled aluminum deadend body precompressed onto a steel eye, a prefilled 15" jumper terminal and mounting hardware.

Material: Body – *seamless extruded aluminum alloy tube*
Eye – *galvanized forged steel*
Terminal – *seamless extruded aluminum alloy tube*
Hardware – *aluminum alloy*

IDENTIFICATION:
DEADEND & TERMINAL:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code



Single Tongue, Horizontal Eye

Single Tongue, Vertical Eye

Product Data and Conductor Size

Vertical Eye Catalog Number	Horizontal Eye Catalog Number	Kcmil	Strands	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	A	B	C	Pad Width	Bolt Holes	Die Size	Min Press Size Tons
AC010707	AC030707	300.0	19	Peony	0.629	10.1 (257)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	07CD	12
AC010707	AC030707	336.4	19	Tulip	0.666	10.1 (257)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	07CD	12
AC010707	AC030707	350.0	19	Daffodil	0.679	10.1 (257)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	07CD	12
AC010808	AC030808	397.5	19	Canna	0.724	10.7 (272)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	08CD	12
AC010808	AC030808	400.0	19	Four-O'Clock	0.726	10.7 (272)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	08CD	12
AC010909	AC030909	450.0	19	Goldentuft	0.770	11.3 (287)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
AC010909	AC030909	450.0	37	Yarrow	0.772	11.3 (287)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
AC010909	AC030909	477.0	19	Cosmos	0.792	11.3 (287)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
AC010909	AC030909	477.0	37	Syringa	0.795	11.3 (287)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
AC010909	AC030909	500.0	19	Zinnia	0.811	11.3 (287)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
AC010909	AC030909	500.0	37	Hyacinth	0.813	11.3 (287)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
AC010909	AC030909	550.0	37	Ganzania	0.853	11.3 (287)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
C011010	C031010	556.5	19	Dahlia	0.856	11.9 (302)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
C011010	C031010	556.5	37	Mistletoe	0.858	11.9 (302)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
C011010	C031010	600.0	37	Meadowsweet	0.891	11.9 (302)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
C011010	C031010	636.0	37	Orchid	0.918	11.9 (302)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
C011010	C031010	650.0	37	Heuchera	0.928	11.9 (302)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
C011111	C031111	700.0	37	Verbena	0.963	13.0 (329)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	4	11CD	60
C011111	C031111	700.0	61	Flag	0.964	13.0 (329)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	4	11CD	60

Product Data and Conductor Size (*continued*)

Vertical Eye Catalog Number	Horizontal Eye Catalog Number	Kcmil	Strands	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	A	B	C	Pad Width	Bolt Holes	Die Size	Min Press Size Tons
C011111	C031111	715.5	37	Violet	0.974	13.0 (329)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	4	11CD	60
C011111	C031111	715.5	61	Nasturtium	0.975	13.0 (329)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	4	11CD	60
C011111	C031111	750.0	37	Petunia	0.997	13.0 (329)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	4	11CD	60
C011111	C031111	750.0	61	Cattail	0.998	13.0 (329)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
C011111	C031111	795.0	37	Arbutus	1.026	13.0 (329)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
C011111	C031111	795.0	61	Lilac	1.028	13.0 (329)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
C011111	C031111	800.0	37	Fuchsia	1.029	13.0 (329)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
C011111	C031111	800.0	61	Heliotrope	1.031	13.0 (329)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
C011212	C031212	874.5	37	Anemone	1.077	13.6 (344)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
C011212	C031212	874.5	61	Crocus	1.078	13.6 (344)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
C011212	C031212	900.0	37	Cockscomb	1.092	13.6 (344)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
C011212	C031212	900.0	61	Snapdragon	1.094	13.6 (344)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
C011212	C031212	954.0	37	Magnolia	1.124	13.6 (344)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
C011212	C031212	954.0	61	Goldenrod	1.126	13.6 (344)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
AC011313	C031313	1000.0	37	Hawkweed	1.151	15.6 (397)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
AC011313	C031313	1000.0	61	Camellia	1.152	15.6 (397)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
AC011313	C031313	1033.5	37	Bluebell	1.170	15.6 (397)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
AC011313	C031313	1033.5	61	Larkspur	1.172	15.6 (397)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
AC011313	C031313	1113.0	61	Marigold	1.216	15.6 (397)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
C011414	AC031414	1192.5	61	Hawthorn	1.258	16.4 (417)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	14CD	60
C011414	AC031414	1272.0	61	Narcissus	1.300	16.4 (417)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	14CD	60
AC011515	AC031515	1351.5	61	Columbine	1.340	17.0 (431)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
AC011515	AC031515	1431.0	61	Carnation	1.379	17.0 (431)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
AC011515	AC031515	1510.5	61	Gladiolus	1.417	17.0 (431)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
C011616	C031616	1590.0	61	Coreopsis	1.454	18.7 (474)	2.5 (63)	1.2 (30)	.94 (23)	3.0 (76)	4	16CD	60
C011616	C031616	1590.0	91	Dogwood	1.454	18.7 (474)	2.5 (63)	1.2 (30)	.94 (23)	3.0 (76)	4	16CD	60
AC011717	AC031717	1750.0	61	Jessamine	1.525	19.3 (491)	2.5 (63)	1.2 (30)	.94 (23)	4.0 (101)	4	17CD	60
C011919	C031919	2000.0	91	Cowslip	1.630	22.0 (560)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	19CD	100
C011919	C031919	2250.0	91	Sagebrush	1.729	22.0 (560)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	19CD	100
C011919	C031919	2300.0	61	Pigweed	1.748	22.0 (560)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	19CD	100
C012020	C032020	2500.0	91	Lupine	1.823	22.7 (577)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	20CD	100
C012020	C032020	2750.0	91	Bitterroot	1.912	22.7 (577)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	20CD	100

NOTE: For XL repair deadend add suffix "XL" and repair cutoff length in inches. Example: C011414XL18. Suffix "NT" omits jumper terminal. Example: C011414NT. Suffix "NPNT" omits both jumper terminal and deadend tongue. Example: C01141421NPNT.

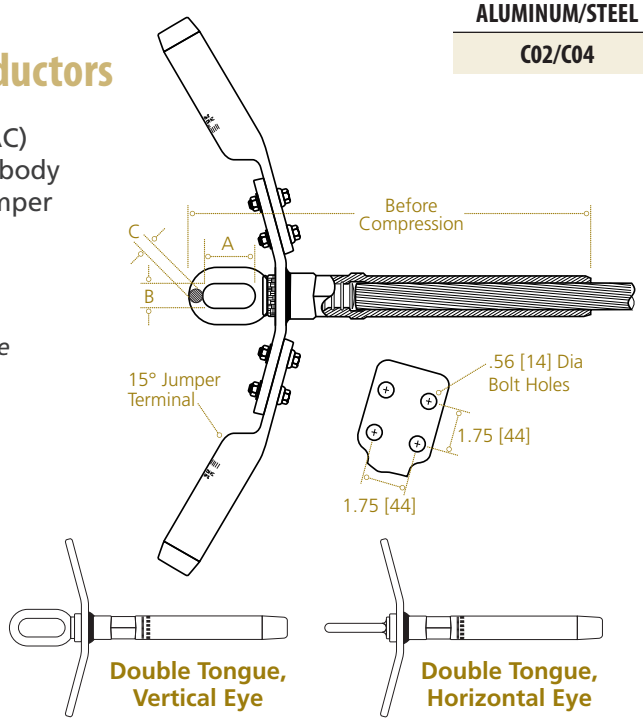
Uni-Grip® (One Die) Eye Type, Double Tongue All Aluminum (AAC) Conductors

ALUMINUM/STEEL
C02/C04

Full tension deadend assembly for All Aluminum (AAC) conductor consists of a prefilled aluminum deadend body precompressed onto a steel eye, two prefilled 15˚ jumper terminals and mounting hardware.

Material: Body – *seamless extruded aluminum alloy tube*
Eye – *galvanized forged steel*
Terminal – *seamless extruded aluminum alloy tube*
Hardware – *aluminum alloy*

IDENTIFICATION:
DEADEND & TERMINAL:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code



Double Tongue, Vertical Eye

Double Tongue, Horizontal Eye

Product Data and Conductor Size

Vertical Eye Catalog Number	Horizontal Eye Catalog Number	Kcmil	Strands	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	A	B	C	Pad Width	Bolt Holes	Die Size	Min Press Size Tons
C020707	C040707	300.0	19	Peony	0.629	10.1 (257)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	07CD	12
C020707	C040707	336.4	19	Tulip	0.666	10.1 (257)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	07CD	12
C020707	C040707	350.0	19	Daffodil	0.679	10.1 (257)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	07CD	12
AC020808	AC040808	397.5	19	Canna	0.724	10.7 (272)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	08CD	12
AC020808	AC040808	400.0	19	Four-O'Clock	0.726	10.7 (272)	2.0 (50)	1.0 (25)	.41 (10)	2.0 (50)	2	08CD	12
AC020909	AC040909	450.0	19	Goldentuft	0.770	11.3 (287)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
AC020909	AC040909	450.0	37	Yarrow	0.772	11.3 (287)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
AC020909	AC040909	477.0	19	Cosmos	0.792	11.3 (287)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
AC020909	AC040909	477.0	37	Syringa	0.795	11.3 (287)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
AC020909	AC040909	500.0	19	Zinnia	0.811	11.3 (287)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
AC020909	AC040909	500.0	37	Hyacinth	0.813	11.3 (287)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
AC020909	AC040909	550.0	37	Ganzania	0.853	11.3 (287)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	09CD	12
AC021010	AC041010	556.5	19	Dahlia	0.856	11.9 (302)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
AC021010	AC041010	556.5	37	Mistletoe	0.858	11.9 (302)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
AC021010	AC041010	600.0	37	Meadowsweet	0.891	11.9 (302)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
AC021010	AC041010	636.0	37	Orchid	0.918	11.9 (302)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
AC021010	AC041010	650.0	37	Heuchera	0.928	11.9 (302)	2.0 (50)	1.0 (25)	.52 (13)	2.0 (50)	2	10CD	60
C021111	C041111	700.0	37	Verbena	0.963	13.0 (329)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
C021111	C041111	700.0	61	Flag	0.964	13.0 (329)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60

Product Data and Conductor Size (*continued*)

Vertical Eye Catalog Number	Horizontal Eye Catalog Number	Kcmil	Strands	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	A	B	C	Pad Width	Bolt Holes	Die Size	Min Press Size Tons
C021111	C041111	715.5	37	Violet	0.974	13.0 (329)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
C021111	C041111	715.5	61	Nasturtium	0.975	13.0 (329)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
C021111	C041111	750.0	37	Petunia	0.997	13.0 (329)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
C021111	C041111	750.0	61	Cattail	0.998	13.0 (329)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
C021111	C041111	795.0	37	Arbutus	1.026	13.0 (329)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
C021111	C041111	795.0	61	Lilac	1.028	13.0 (329)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
C021111	C041111	800.0	37	Fuchsia	1.029	13.0 (329)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
C021111	C041111	800.0	61	Heliotrope	1.031	13.0 (329)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	11CD	60
C021212	C041212	874.5	37	Anemone	1.077	13.6 (344)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
C021212	C041212	874.5	61	Crocus	1.078	13.6 (344)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
C021212	C041212	900.0	37	Cockscomb	1.092	13.6 (344)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
C021212	C041212	900.0	61	Snapdragon	1.094	13.6 (344)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
C021212	C041212	954.0	37	Magnolia	1.124	13.6 (344)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
C021212	C041212	954.0	61	Goldenrod	1.126	13.6 (344)	2.0 (50)	1.0 (25)	.62 (15)	3.0 (76)	4	12CD	60
C021313	C041313	1000.0	37	Hawkweed	1.151	15.6 (397)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
C021313	C041313	1000.0	61	Camellia	1.152	15.6 (397)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
C021313	C041313	1033.5	37	Bluebell	1.170	15.6 (397)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
C021313	C041313	1033.5	61	Larkspur	1.172	15.6 (397)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
C021313	C041313	1113.0	61	Marigold	1.216	15.6 (397)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	13CD	60
AC021414	AC041414	1192.5	61	Hawthorn	1.258	16.4 (417)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	14CD	60
AC021414	AC041414	1272.0	61	Narcissus	1.300	16.4 (417)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	14CD	60
AC021515	AC041515	1351.5	61	Columbine	1.340	17.0 (431)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
AC021515	AC041515	1431.0	61	Carnation	1.379	17.0 (431)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
AC021515	AC041515	1510.5	61	Gladiolus	1.417	17.0 (431)	2.5 (63)	1.2 (30)	.78 (19)	3.0 (76)	4	15CD	60
AC021616	AC041616	1590.0	61	Coreopsis	1.454	18.7 (474)	2.5 (63)	1.2 (30)	.94 (23)	3.0 (76)	4	16CD	60
AC021616	AC041616	1590.0	91	Dogwood	1.454	18.7 (474)	2.5 (63)	1.2 (30)	.94 (23)	3.0 (76)	4	16CD	60
C021717	C041717	1750.0	61	Jessamine	1.525	19.3 (491)	2.5 (63)	1.2 (30)	.94 (23)	4.0 (101)	4	17CD	60
C021919	C041919	2000.0	91	Cowslip	1.630	22.0 (560)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	19CD	100
C021919	C041919	2250.0	91	Sagebrush	1.729	22.0 (560)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	19CD	100
C021919	C041919	2300.0	61	Pigweed	1.748	22.0 (560)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	19CD	100
C022020	C042020	2500.0	91	Lupine	1.823	22.7 (577)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	20CD	100
C022020	C042020	2750.0	91	Bitterroot	1.912	22.7 (577)	3.0 (76)	1.5 (38)	1.1 (27)	4.0 (101)	4	20CD	100

NOTE: For XL repair deadend add suffix "XL" and repair cutoff length in inches. Example: C041212XL18. Suffix "NT" omits jumper terminal. Example: C041212NT. Suffix "NPNT" omits both jumper terminal and deadend tongue. Example: C041212NPNT. Consult factory for Self-Dampening (SD) and Trapezoidal (TW) conductors.

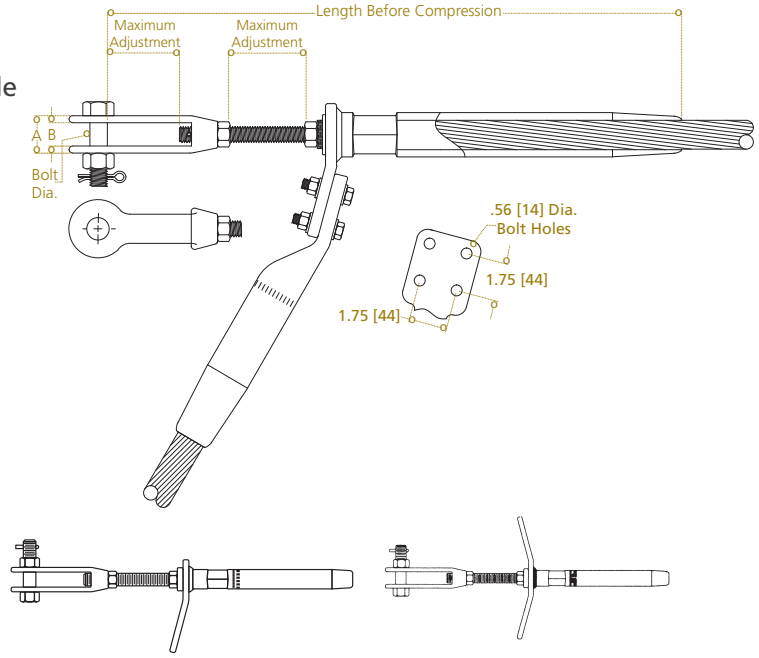
Uni-Grip® (One Die) Adjustable Clevis Type All Aluminum (AAC) Conductors

ALUMINUM/STEEL
C09/C10

Full tension deadend assembly for All Aluminum (AAC) conductors consists of a prefilled aluminum deadend body precompressed onto a steel adjustable clevis. Single tongue deadends are supplied with one jumper terminal and double tongue deadends are supplied with two jumper terminals and mounting hardware.

Material: Body – *seamless extruded aluminum alloy tube*
Clevis – *galvanized forged steel*
Terminal – *seamless extruded aluminum alloy tube*
Terminal Hardware – *aluminum alloy*

IDENTIFICATION:
DEADEND & TERMINAL:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code



Single Tongue, Adjustable Clevis

Double Tongue, Adjustable Clevis

Product Data and Conductor Size

Single Tongue Catalog Number	Double Tongue Catalog Number	Kcmil	Strands	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	A	B	Max Adjust	Bolt Diameter	Single Tongue Pad Width	Bolt Holes	Die Size	Min Press Size Tons
AC090808	AC100808	397.5	19	Canna	0.724	16.9 (430)	1.7 (43)	1.1 (28)	2.9 (73)	.62 (16)	2.0 (50)	2	08CD	12
AC090808	AC100808	400.0	19	Four-O'Clock	0.726	16.9 (430)	1.7 (43)	1.1 (28)	2.9 (73)	.62 (16)	2.0 (50)	2	08CD	12
C090909	C100909	450.0	19	Goldentuft	0.770	17.5 (444)	1.7 (43)	1.1 (28)	2.9 (73)	.62 (16)	2.0 (50)	2	09CD	12
C090909	C100909	450.0	37	Yarrow	0.772	17.5 (444)	1.7 (43)	1.1 (28)	2.9 (73)	.62 (16)	2.0 (50)	2	09CD	12
C090909	C100909	477.0	19	Cosmos	0.792	17.5 (444)	1.7 (43)	1.1 (28)	2.9 (73)	.62 (16)	2.0 (50)	2	09CD	12
C090909	C100909	477.0	37	Syringa	0.795	17.5 (444)	1.7 (43)	1.1 (28)	2.9 (73)	.62 (16)	2.0 (50)	2	09CD	12
C090909	C100909	500.0	19	Zinnia	0.811	17.5 (444)	1.7 (43)	1.1 (28)	2.9 (73)	.62 (16)	2.0 (50)	2	09CD	12
C090909	C100909	500.0	37	Hyacinth	0.813	17.5 (444)	1.7 (43)	1.1 (28)	2.9 (73)	.62 (16)	2.0 (50)	2	09CD	12
C090909	C100909	550.0	37	Ganzania	0.853	17.5 (444)	1.7 (43)	1.1 (28)	2.9 (73)	.62 (16)	2.0 (50)	2	09CD	12
C091010	C101010	556.5	19	Dahlia	0.856	18.0 (458)	1.7 (43)	1.1 (28)	2.8 (71)	.75 (19)	2.0 (50)	2	10CD	60
C091010	C101010	556.5	37	Mistletoe	0.858	18.0 (458)	1.7 (43)	1.1 (28)	2.8 (71)	.75 (19)	2.0 (50)	2	10CD	60
C091010	C101010	600.0	37	Meadowsweet	0.891	18.0 (458)	1.7 (43)	1.1 (28)	2.8 (71)	.75 (19)	2.0 (50)	2	10CD	60
C091010	C101010	636.0	37	Orchid	0.918	18.0 (458)	1.7 (43)	1.1 (28)	2.8 (71)	.75 (19)	2.0 (50)	2	10CD	60
C091010	C101010	650.0	37	Heuchera	0.928	18.0 (458)	1.7 (43)	1.1 (28)	2.8 (71)	.75 (19)	2.0 (50)	2	10CD	60
C091111	AC101111	700.0	37	Verbena	0.963	21.0 (533)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60

Product Data and Conductor Size (*continued*)

Single Tongue Catalog Number	Double Tongue Catalog Number	Kcmil	Strands	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	A	B	Max Adjust	Bolt Diameter	Single Tongue Pad Width	Bolt Holes	Die Size	Min Press Size Tons
C091111	AC101111	700.0	61	Flag	0.964	21.0 (533)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
C091111	AC101111	715.5	37	Violet	0.974	21.0 (533)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
C091111	AC101111	715.5	61	Nasturtium	0.975	21.0 (533)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
C091111	AC101111	750.0	37	Petunia	0.997	21.0 (533)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
C091111	AC101111	750.0	61	Cattail	0.998	21.0 (533)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
C091111	AC101111	795.0	37	Arbutus	1.026	21.0 (533)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
C091111	AC101111	795.0	61	Lilac	1.028	21.0 (533)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
C091111	AC101111	800.0	37	Fuchsia	1.029	21.0 (533)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
C091111	AC101111	800.0	61	Heliotrope	1.031	21.0 (533)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	11CD	60
C091212	AC101212	874.5	37	Anemone	1.077	21.6 (549)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	12CD	60
C091212	AC101212	874.5	61	Crocus	1.078	21.6 (549)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	12CD	60
C091212	AC101212	900.0	37	Cockscomb	1.092	21.6 (549)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	12CD	60
C091212	AC101212	900.0	61	Snapdragon	1.094	21.6 (549)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	12CD	60
C091212	AC101212	954.0	37	Magnolia	1.124	21.6 (549)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	12CD	60
C091212	AC101212	954.0	61	Goldenrod	1.126	21.6 (549)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	12CD	60
C091313	AC101313	1000.0	37	Hawkweed	1.151	23.1 (587)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	13CD	60
C091313	AC101313	1000.0	61	Camellia	1.152	23.1 (587)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	13CD	60
C091313	AC101313	1033.5	37	Bluebell	1.170	23.1 (587)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	13CD	60
C091313	AC101313	1033.5	61	Larkspur	1.172	23.1 (587)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	13CD	60
C091313	AC101313	1113.0	61	Marigold	1.216	23.1 (587)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	13CD	60
AC091414	C101414	1192.5	61	Hawthorn	1.258	23.8 (605)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	14CD	60
AC091414	C101414	1272.0	61	Narcissus	1.300	23.8 (605)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	14CD	60
AC091515	AC101515	1351.5	61	Columbine	1.340	28.9 (735)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	15CD	60
AC091515	AC101515	1431.0	61	Carnation	1.379	28.9 (735)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	15CD	60
AC091515	AC101515	1510.5	61	Gladiolus	1.417	28.9 (735)	2.4 (61)	1.4 (35)	3.5 (88)	1.0 (25)	3.0 (76)	4	15CD	60
C091616	C101616	1590.0	61	Coreopsis	1.454	29.1 (740)	2.6 (66)	1.6 (40)	4.4 (111)	1.1 (28)	3.0 (76)	4	16CD	60
C091616	C101616	1590.0	91	Dogwood	1.454	29.1 (740)	2.6 (66)	1.6 (40)	4.4 (111)	1.1 (28)	3.0 (76)	4	16CD	60
C091717	C101717	1750.0	61	Jessamine	1.525	30.0 (762)	2.6 (66)	1.6 (40)	4.4 (111)	1.1 (28)	4.0 (101)	4	17CD	60
AC091919	AC101919	2000.0	91	Cowslip	1.630	30.7 (780)	3.1 (79)	2.0 (50)	4.4 (111)	1.1 (28)	4.0 (101)	4	19CD	100
AC091919	AC101919	2250.0	91	Sagebrush	1.729	30.7 (780)	3.1 (79)	2.0 (50)	4.4 (111)	1.1 (28)	4.0 (101)	4	19CD	100
AC091919	AC101919	2300.0	61	Pigweed	1.748	30.7 (780)	3.1 (79)	2.0 (50)	4.4 (111)	1.1 (28)	4.0 (101)	4	19CD	100
AC092020	AC102020	2500.0	91	Lupine	1.823	31.4 (797)	3.1 (79)	2.0 (50)	4.4 (111)	1.1 (28)	4.0 (101)	4	20CD	100
AC092020	AC102020	2750.0	91	Bitterroot	1.912	31.4 (797)	3.1 (79)	2.0 (50)	4.4 (111)	1.1 (28)	4.0 (101)	4	20CD	100

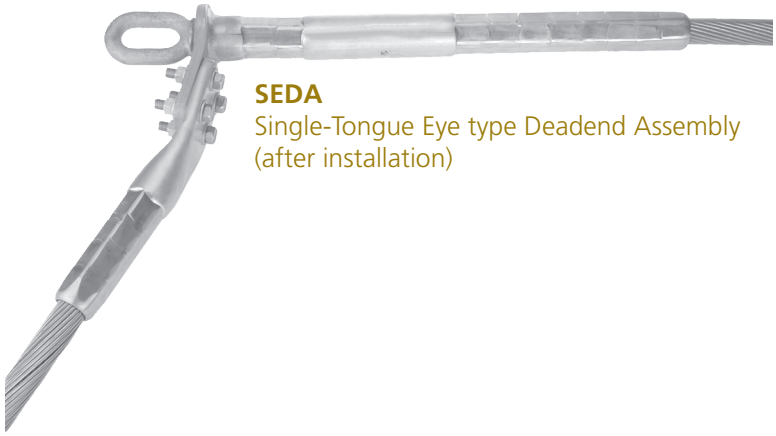
NOTE: For XL repair deadend add suffix "XL" and repair cutoff length in inches. Example: C091212XL18. Suffix "NT" omits jumper terminal. Example: C091212NT. Suffix "NPNT" omits both jumper terminal and deadend tongue. Example: C091212NPNT.

Conventional (Two Die) System

ALUMINUM/STEEL
SEDA/DEDA

Full-tension deadend assemblies for ACSR and ACSS (SSAC) conductors consist of an aluminum deadend body, a steel eye, a 15° jumper terminal and mounting hardware. Conventional Deadends and Jumper terminals for conductors 1.00 inch diameter or larger are EHV rated.

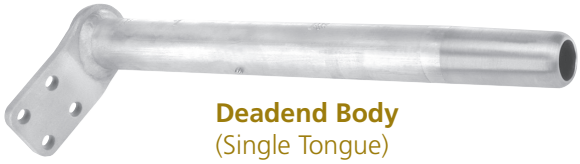
Material: Body – *seamless extruded aluminum alloy tube*
Eye – *galvanized forged steel*
Terminal – *seamless extruded aluminum alloy tube*
Hardware – *aluminum alloy*[1]



SEDA
Single-Tongue Eye type Deadend Assembly
(after installation)



Steel Deadend Eye



Deadend Body
(Single Tongue)



Jumper Terminal

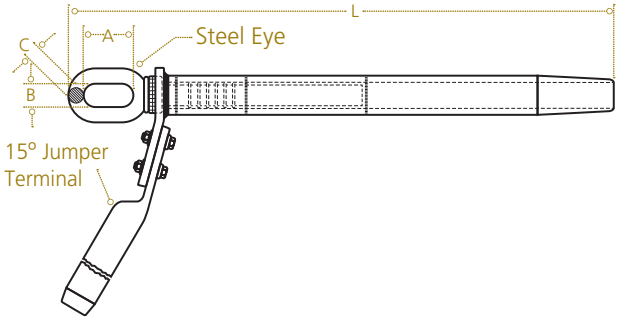
Deadends Compression Conventional (Two Die) ACSR Conductors

ALUMINUM/STEEL
SEDA/DEDA

Full-tension deadend assemblies for ACSR conductors consist of an aluminum deadend body, steel deadend eye, 15° jumper terminal and terminal mounting hardware. Terminal and tongue have NEMA hole spacing.

Material: Body – *seamless extruded aluminum alloy tube*
Eye – *galvanized forged steel*
Terminal – *seamless extruded aluminum alloy tube*
Terminal Hardware – ½ - 13 *aluminum alloy*[1]

IDENTIFICATION:
Conductor Size, Stranding & Type Die Size, Minimum Press Size, Fargo Component, Part Number, Date Code



Product Data and Conductor Size

Single Tongue[2] Deadend Assembly Catalog Number	ACSR Conductor[3]			Component Catalog Number			Bolt Holes	Length Before Compression Inches				Die Size[5]	
	Code Word	Kcmil	Strand AL/STL	Aluminum Body	Steel Eye	Terminal 15°[4]		L	A	B	C	Alum	Steel
SEDA7829	Pigeon	3/0	6/1	12546A	133S17	30546	2	15.1	2.50	1.00	0.49	75AH	75SH
SEDA7929	Penguin	4/0	6/1	12609	134S20	30609	2	16.6	2.50	1.00	0.49	75AH	75SH
SEDA1102	Waxwing	266.8	18/1	12657	130114	30657	2	17.2	2.50	1.00	0.49	75AH	74SH
SEDA1109	Partridge	266.8	26/7	12688	130126	30688	2	19.3	2.50	1.00	0.49	76AH	76SH
SEDA1209	Ostrich	300.0	26/7	12740	130128	30740	2	19.9	2.50	1.00	0.49	20AH	10SH
SEDA1309	Linnet	336.4	26/7	12800	130129	30800	2	17.6	2.50	1.00	0.49	20AH	10SH
SEDA1302	Merlin	336.4	18/1	12740	130115	30740	2	17.6	2.50	1.00	0.49	20AH	74SH
SEDA1313	Oriole	336.4	30/7	12800	130234	30800	2	17.6	2.50	1.00	0.49	20AH	10SH
SEDA1502	Chickadee	397.5	18/1	12800	130117	30800	2	17.7	2.50	1.00	0.49	20AH	74SH
SEDA1508	Brant	397.5	24/7	12845	130128	30845	2	23.2	2.50	1.00	0.49	20AH	10SH
SEDA1509	Ibis	397.5	26/7	12845	130131	30845	2	23.2	2.50	1.00	0.49	20AH	10SH
SEDA1513	Lark	397.5	30/7	12845	130236	30845	2	23.2	2.50	1.00	0.49	20AH	12SH
SEDA1802	Pelican	477.0	18/1	12883	130217	30883	2	18.6	2.50	1.00	0.49	24AH	75SH
SEDA1808	Flicker	477.0	24/7	12922	130331	30922	2	19.5	2.50	1.00	0.49	24AH	10SH
SEDA1809	Hawk	477.0	26/7	12922	130234	30922	2	19.5	2.50	1.00	0.55	24AH	12SH
SEDA1813	Hen	477.0	30/7	12922	130440	30922	2	19.5	2.50	1.00	0.55	24AH	12SH
SEDA2202	Osprey	556.5	18/1	12922	130419	30922	2	19.5	2.50	1.00	0.55	24AH	75SH
SEDA2208	Parakeet	556.5	24/7	12990	130332	30990	2	19.8	2.50	1.00	0.55	24AH	10SH
SEDA2209	Dove	556.5	26/7	12990	130436	30990	2	19.8	2.50	1.00	0.55	24AH	12SH
SEDA2213	Eagle	556.5	30/7	12107C	130843	30107	4	22.5	2.62	1.00	0.67	27AH	14SH
SEDA2408	Peacock	605.0	24/7	12107AB	130734	30107	4	22.2	2.50	1.00	0.55	27AH	12SH
SEDA2409	Squab	605.0	26/7	12107AB	130737	30107	4	22.2	2.50	1.00	0.55	27AH	12SH
SEDA2413	Wood Duck	605.0	30/7	12107C	130845	30107	4	22.5	2.62	1.24	0.67	27AH	14SH
SEDA2417	Teal	605.0	30/19	12107C	130845	30107	4	22.5	2.62	1.24	0.67	27AH	14SH
SEDA2502	Kingbird	636.0	18/1	12102A	130720	30102	4	20.5	2.50	1.00	0.55	27AH	75SH
SEDA2508	Rook	636.0	24/7	12107AB	130735	30107	4	20.5	2.50	1.00	0.55	27AH	12SH
SEDA2509	Grosbeak	636.0	26/7	12107AB	130739	30107	4	20.5	2.50	1.00	0.55	27AH	12SH
SEDA2513	Scoter	636.0	30/7	12107C	130846	30107	4	22.5	2.62	1.24	0.67	27AH	14SH
SEDA2517	Egret	636.0	30/19	12107C	130846	30107	4	22.5	2.62	1.24	0.67	27AH	14SH
SEDA2808	Flamingo	666.6	24/7	12107AB	130736	30107	4	20.5	2.50	1.00	0.55	27AH	12SH
SEDA2809	Gannet	666.6	26/7	12107AB	130440	30107	4	20.5	2.50	1.00	0.55	27AH	12SH
SEDA3008	Stilt	715.5	24/7	12117	131037	30117	4	23.4	2.62	1.24	0.67	30AH	12SH
SEDA3009	Starling	715.5	26/7	12117	130840	30117	4	23.4	2.62	1.24	0.67	30AH	14SH
SEDA3017	Redwing	715.5	30/19	12117	130950	30117	4	23.4	2.62	1.24	0.67	30AH	16SH
SEDA3312	Coot	795.0	36/1	12110	131017	30110	4	23.4	2.62	1.24	0.67	30AH	74SH

Product Data and Conductor Size *(continued)*

Single Tongue[2] Deadend Assembly Catalog Number	ACSR Conductor[3]			Component Catalog Number			Bolt Holes	Length Before Compression Inches				Die Size[5]	
	Code Word	Kcmil	Strand AL/STL	Aluminum Body	Steel Eye	Terminal 15°[4]		L	A	B	C	Alum	Steel
SEDA3318	Tern	795.0	45/7	12117	131429	30117	4	23.4	2.62	1.24	0.67	30AH	10SH
SEDA3308	Cuckoo	795.0	24/7	12117	131039	30117	4	23.4	2.62	1.24	0.67	30AH	12SH
SEDA3321	Condor	795.0	54/7	12117	131039	30117	4	23.4	2.62	1.24	0.67	30AH	12SH
SEDA3309	Drake	795.0	26/7	12117	130843	30117	4	23.4	2.62	1.24	0.67	30AH	14SH
SEDA3317	Mallard	795.0	30/19	12126	130951	30126	4	23.7	2.62	1.24	0.67	30AH	16SH
SEDA3721	Crane	874.5	54/7	12126	131040	30126	4	23.7	2.62	1.24	0.67	30AH	12SH
SEDA3818	Ruddy	900.0	45/7	12126	131431	30126	4	23.7	2.62	1.24	0.67	30AH	10SH
SEDA3821	Canary	900.0	54/7	12126	131240	30126	4	23.7	2.62	1.24	0.67	30AH	14SH
SEDA4112	Catbird	954.0	36/1	12122	131018	30122	4	23.7	2.62	1.24	0.67	30AH	75SH
SEDA4118	Rail	954.0	45/7	12126	131432	30126	4	23.7	2.62	1.24	0.67	30AH	10SH
SEDA4119	Towhee	954.0	48/7	12126	131036	30126	4	23.7	2.62	1.24	0.67	30AH	14SH
SEDA4121	Cardinal	954.0	54/7	12126	1308453	30126	4	23.7	2.62	1.24	0.67	30AH	14SH
SEDA4117	Canvasback	954.0	30/19	12134	132256	30132	4	27.0	2.62	1.24	0.94	34AH	18SH
SEDA4412	Tanager	1033.5	36/1	12126	131018	30126	4	24.5	2.62	1.24	0.67	30AH	75SH
SEDA4418	Ortolan	1033.5	45/7	12127	1310H328	30127	4	24.7	2.62	1.24	0.78	34AH	10SH
SEDA4421	Curlew	1033.5	54/7	12127	131243	30127	4	24.7	2.62	1.24	0.78	34AH	14SH
SEDA4718	Bluejay	1113.0	45/7	12136A	131634	30132	4	25.7	2.62	1.24	0.78	34AH	12SH
SEDA4724	Finch	1113.0	54/19	12136A	131545	30136	4	26.0	2.62	1.24	0.78	34AH	14SH
SEDA4918	Bunting	1192.5	45/7	12136A	131635	30136	4	26.0	2.62	1.24	0.78	34AH	12SH
SEDA4924	Grackle	1192.5	54/19	12141	131546	30141	4	26.0	2.62	1.24	0.78	36AH	14SH
SEDA5112	Skylark	1272.0	36/1	12136A	131621	30136	4	26.0	2.62	1.24	0.78	34AH	75SH
SEDA5118	Bittern	1272.0	45/7	12141	131834	30141	4	26.6	2.62	1.24	0.78	36AH	12SH
SEDA5124	Pheasant	1272.0	54/19	12145	131950	30141	4	26.6	2.62	1.24	0.78	36AH	16SH
SEDA5218	Dipper	1351.5	45/7	12145	131837	30141	4	26.6	2.62	1.24	0.78	36AH	12SH
SEDA5224	Martin	1351.5	54/19	12151	132249	30149	4	27.1	2.62	1.24	0.94	38AH	16SH
SEDA5418	Bobolink	1431.0	45/7	12145	131839	30141	4	26.6	2.62	1.24	0.78	36AH	12SH
SEDA5424	Plover	1431.0	54/19	12151	132253	30149	4	27.1	2.62	1.24	0.94	38AH	16SH
SEDA5618	Nuthatch	1510.5	45/7	12151	132140	30149	4	27.1	2.62	1.24	0.94	38AH	14SH
SEDA5624	Parrot	1510.5	54/19	12157	132053	30157	4	29.1	2.62	1.24	0.94	40AH	16SH
SEDA5718	Lapwing	1590.0	45/7	12157	132140	30157	4	29.1	2.62	1.24	0.94	40AH	12SH
SEDA5724	Falcon	1590.0	54/19	12157	132254	30157	4	29.1	2.62	1.24	0.94	40AH	18SH
SEDA6028	Chukar	1780.0	84/19	12167	132346	30167	4	29.7	2.62	1.24	0.94	42AH	14SH
SEDA6105	Seahawk	1869.0	68/7	12167	132129	30167	4	29.7	2.62	1.24	0.94	42AH	12SH
SEDA6205	Mockingbird	2034.5	72/7	12167	132235	30167	4	29.7	2.62	1.24	0.94	42AH	14SH
SEDA6210	Roadrunner	2057.0	76/19	12167	132348	30167	4	29.7	2.62	1.24	0.94	42AH	12SH
SEDA6328	Bluebird	2156.0	84/19	12184	132450	30184	4	32.2	3.00	1.50	1.08	44AH	16SH
SEDA6425	Kiwi	2167.0	72/7	12181	132137	30181	4	32.2	3.00	1.50	1.08	44AH	12SH
SEDA6610	Thrasher	2312.0	76/19	12188	132645	30184	4	32.2	3.00	1.50	1.08	44AH	14SH

NOTE: Joint compound: use Fargo® UJC-16 joint compound. For lowest resistance connection, install with Fargo HTJC-16 compound — see table below for number of 16 oz tubes required per component.

(1) To specify optional stainless steel terminal hardware, including required Belleville washers, add "SS" suffix to catalog number of deadend assembly or separately ordered terminal.

(2) To specify double tongue deadend assembly, change first character of catalog number from "S" to "D". To specify deadend assembly without jumper terminal, add "NT" suffix to catalog number.

(3) Deadends are full-tension rated for conductors with standard strength steel cores.

(4) 15° jumper terminal allows for 0° or 30° jumper take-off angle from 15° deadend tongue. Separately ordered straight terminals may be specified by changing terminal component catalog number prefix from "30" to "33".

(5) Compression press minimum size: 20AH and smaller — 12 ton; 10SH and smaller — 12 ton; 12SH and larger — 60 ton; 42AH and larger — 100 ton.

Fargo Type UJC16 or HTJC16 Joint Compound Required (Cartridges Per Fitting)

Component	Catalog Series	Die Size											
		74AH	75AH	76AH	20AH	24AH	27AH	30AH	34AH	36AH	38AH	40AH	42AH	44AH
Deadend Body	12 / 15	0.03	0.05	0.08	0.15	0.24	0.34	0.50	0.56	0.62	0.82	0.90	1.10	1.20
Jumper Terminal	30 / 33	0.03	0.03	0.03	0.04	0.06	0.07	0.10	0.14	0.16	0.18	0.22	0.25	0.30

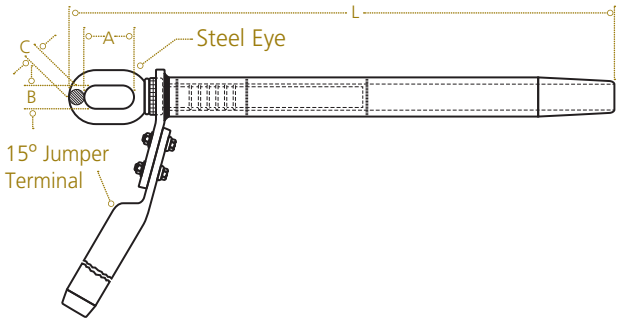
Conventional (Two Die) ACSS Conductors

ALUMINUM/STEEL
SEDA/DEDA-SSAC

Full-tension deadend assemblies for ACSS conductors consist of an aluminum deadend body, steel deadend eye, 15° jumper terminal and terminal mounting hardware. Terminal and tongue have NEMA hole spacing.

Material: Body – *seamless extruded aluminum alloy tube*
Eye – *galvanized forged steel*
Terminal – *seamless extruded aluminum alloy tube*
Terminal Hardware – *aluminum alloy*[1]

IDENTIFICATION:
Conductor Size, Stranding & Type Die Size, Minimum Press Size, FARGO® Component, Part Number, Date Code



Product Data and Conductor Chart

Single Tongue[2] Deadend Assembly Catalog Number	ACSS Conductor[3]			Component Catalog Number			Bolt Holes	Length Before Compression Inches				Die Size[5]	
	Code Word	Kcmil	Strand AL/STL	Aluminum Body	Steel Eye	Terminal 15°[4]		L	A	B	C	Alum	Steel
SEDA1109SSAC	Partridge	266.8	26/7	12734SSAC	130126	30734SSAC	2	19.3	2.50	1.00	0.49	76AH	10SH
SEDA1113SSAC	Junco	266.8	30/7	12740SSAC	130131	30740SSAC	2	19.9	2.50	1.00	0.49	20AH	10SH
SEDA1209SSAC	Ostrich	300.0	26/7	12740SSAC	130128	30740SSAC	2	19.9	2.50	1.00	0.49	20AH	10SH
SEDA1309SSAC	Linnet	336.4	26/7	12800SSAC	132729	30800SSAC	2	20.7	2.50	1.00	0.49	20AH	12SH
SEDA1313SSAC	Oriole	336.4	30/7	12800SSAC	130232	30800SSAC	2	20.7	2.50	1.00	0.49	20AH	12SH
SEDA1508SSAC	Brant	397.5	24/7	12845SSAC	130128	30845SSAC	2	23.2	2.50	1.00	0.49	20AH	10SH
SEDA1509SSAC	Ibis	397.5	26/7	12845SSAC	1302301	30845SSAC	2	23.2	2.50	1.00	0.49	20AH	12SH
SEDA1513SSAC	Lark	397.5	30/7	12845SSAC	130236	30845SSAC	2	23.2	2.50	1.00	0.49	20AH	12SH
SEDA1808SSAC	Flicker	477.0	24/7	12922SSAC	130235	30922SSAC	2	24.2	2.50	1.00	0.49	24AH	12SH
SEDA1809SSAC	Hawk	477.0	26/7	12922SSAC	130234	30922SSAC	2	24.3	2.50	1.00	0.55	24AH	12SH
SEDA1813SSAC	Hen	477.0	30/7	12922SSAC	130841	30922SSAC	2	24.7	2.62	1.24	0.67	24AH	14SH
SEDA2208SSAC	Parakeet	556.5	24/7	12990SSAC	130233	30990SSAC	2	25.0	2.50	1.00	0.55	24AH	12SH
SEDA2209SSAC4	Dove	556.5	26/7	12102SSAC	131037	30107SSAC	4	26.1	2.62	1.24	0.67	27AH	12SH
SEDA2213SSAC	Eagle	556.5	30/7	12102SSAC	130843	30107SSAC	4	26.1	2.62	1.24	0.67	27AH	14SH
SEDA2408SSAC	Peacock	605.0	24/7	12107SSAC	130234	30107SSAC	4	25.7	2.50	1.00	0.55	27AH	12SH
SEDA2409SSAC	Squab	605.0	26/7	12102SSAC	130849	30107SSAC	4	26.1	2.62	1.24	0.67	27AH	14SH
SEDA2213SSAC	Wood Duck	605.0	30/7	12102SSAC	130952	30107SSAC	4	26.1	2.62	1.24	0.67	27AH	16SH
SEDA2417SSAC	Teal	605.0	30/19	12102SSAC	130952	30107SSAC	4	26.1	2.62	1.24	0.67	27AH	16SH
SEDA2508SSAC	Rook	636.0	24/7	12107SSAC	130735	30107SSAC	4	25.7	2.50	1.00	0.55	27AH	12SH
SEDA2509SSAC	Grosbeak	636.0	26/7	12102SSAC	130839	30107SSAC	4	26.1	2.62	1.24	0.67	27AH	14SH
SEDA2513SSAC	Scoter	636.0	30/7	12102SSAC	130953	30107SSAC	4	26.1	2.62	1.24	0.67	27AH	16SH
SEDA2517SSAC	Egret	636.0	30/19	12102SSAC	130953	30107SSAC	4	26.1	2.62	1.24	0.67	27AH	16SH
SEDA2808SSAC	Flamingo	666.0	24/7	12107SSAC	130735	30107SSAC	4	25.7	2.50	1.00	0.55	27AH	12SH
SEDA2809SSAC	Gannet	666.0	26/7	12107SSAC	130841	30107SSAC	4	26.1	2.62	1.24	0.67	27AH	14SH
SEDA3008SSAC	Stilt	715.5	24/7	12110SSAC	130848	30117SSAC	4	27.4	2.62	1.24	0.67	30AH	14SH
SEDA3009SSAC	Starling	715.5	26/7	12110SSAC	131242	30117SSAC	4	27.4	2.62	1.24	0.67	30AH	14SH
SEDA3017SSAC	Redwing	715.5	30/19	12110SSAC	130950	30117SSAC	4	27.4	2.62	1.24	0.67	30AH	16SH
SEDA3318SSAC	Tern	795.0	45/7	12110SSAC	131030	30117SSAC	4	27.4	2.62	1.24	0.67	30AH	12SH
SEDA3308SSAC	Cuckoo	795.0	24/7	12110SSAC	131242	30117SSAC	4	27.4	2.62	1.24	0.67	30AH	14SH
SEDA3321SSAC	Condor	795.0	54/7	12117SSAC	131242	30117SSAC	4	27.4	2.62	1.24	0.67	30AH	14SH
SEDA3309SSAC	Drake	795.0	26/7	12122SSAC	130952	30126SSAC	4	28.0	2.62	1.24	0.67	30AH	16SH

Product Data and Conductor Size (*continued*)

Single Tongue[2] Deadend Assembly Catalog Number	ACSS Conductor[3]			Component Catalog Number			Bolt Holes	Length Before Compression Inches				Die Size[5]	
	Code Word	Kcmil	Strand AL/STL	Aluminum Body	Steel Eye	Terminal 15°[4]		L	A	B	C	Alum	Steel
SEDA3317SSAC	Mallard	795.0	30/19	12122SSAC	130951	30126SSAC	4	28.0	2.62	1.24	0.67	30AH	16SH
SEDA3818SSAC	Ruddy	900.0	45/7	12126SSAC	131032	30126SSAC	4	28.0	2.62	1.24	0.67	30AH	12SH
SEDA3821SSAC	Canary	900.0	54/7	12126SSAC	131242	30126SSAC	4	28.0	2.62	1.24	0.67	30AH	14SH
SEDA4118SSAC	Rail	954.0	45/7	12126SSAC	131032	30126SSAC	4	28.0	2.62	1.24	0.67	30AH	12SH
SEDA4119SSAC	Towhee	954.0	48/7	12126SSAC	130847	30126SSAC	4	28.0	2.62	1.24	0.67	30AH	14SH
SEDA4121SSAC	Cardinal	954.0	54/7	12126SSAC	130952	30126SSAC	4	28.0	2.62	1.24	0.67	30AH	16SH
SEDA4117SSAC	Canvasback	954.0	30/19	12134SSAC	132256	30132SSAC	4	31.4	2.62	1.24	0.94	34AH	18SH
SEDA4418SSAC	Ortolan	1033.5	45/7	12132SSAC	131632	30132SSAC	4	29.9	2.62	1.24	0.78	34AH	12SH
SEDA4421SSAC	Curlew	1033.5	54/7	12133SSAC	131948	30132SSAC	4	30.1	2.62	1.24	0.78	34AH	16SH
SEDA4718SSAC	Bluejay	1113.0	45/7	12133SSAC	131634	30132SSAC	4	30.1	2.62	1.24	0.78	34AH	12SH
SEDA4724SSAC	Finch	1113.0	54/19	12136SSAC	131949	30136SSAC	4	31.0	2.62	1.24	0.78	34AH	16SH
SEDA4918SSAC	Bunting	1192.5	45/7	12136SSAC	131541	30136SSAC	4	31.0	2.62	1.24	0.78	34AH	14SH
SEDA4924SSAC	Grackle	1192.5	54/19	12136SSAC	131949	30136SSAC	4	31.0	2.62	1.24	0.78	34AH	16SH
SEDA5118SSAC	Bittern	1272.0	45/7	12145SSAC	131541	30145SSAC	4	31.8	2.62	1.24	0.78	36AH	14SH
SEDA5124SSAC	Pheasant	1272.0	54/19	12141SSAC	132250	30145SSAC	4	32.1	2.62	1.24	0.94	36AH	18SH
SEDA5218SSAC	Dipper	1351.5	45/7	12145SSAC	131540	30145SSAC	4	31.8	2.62	1.24	0.78	36AH	14SH
SEDA5224SSAC	Martin	1351.5	54/19	12151SSAC	132250	30149SSAC	4	33.9	2.62	1.24	0.94	38AH	18SH
SEDA5418SSAC	Bobolink	1431.0	45/7	12151SSAC	1323391	30149SSAC	4	33.9	2.62	1.24	0.94	38AH	14SH
SEDA5424SSAC	Plover	1431.0	54/19	12151SSAC	132251	30149SSAC	4	33.9	2.62	1.24	0.94	38AH	18SH
SEDA5618SSAC	Nuthatch	1510.5	45/7	12151SSAC	132041	30149SSAC	4	33.9	2.62	1.24	0.94	38AH	16SH
SEDA5624SSAC	Parrot	1510.5	54/19	12157SSAC	132252	30157SSAC	4	34.9	2.62	1.24	0.94	40AH	18SH
SEDA5718SSAC	Lapwing	1590.0	45/7	12157SSAC	132042	30157SSAC	4	34.9	2.62	1.24	0.94	40AH	16SH
SEDA5724SSAC	Falcon	1590.0	54/19	12157SSAC	132254	30157SSAC	4	34.9	2.62	1.24	0.94	40AH	18SH
SEDA6028SSAC	Chukar	1780.0	84/19	12167SSAC	132248	30167SSAC	4	35.8	2.62	1.24	0.94	42AH	18SH
SEDA6210SSAC	Roadrunner	2057.0	76/19	12167SSAC	132043	30167SSAC	4	35.8	2.62	1.24	0.94	42AH	16SH
SEDA6328SSAC	Bluebird	2156.0	84/19	12184SSAC	1327516	30184SSAC	4	39.0	3.00	1.50	1.08	44AH	18SH
SEDA6610SSAC	Thrasher	2312.0	76/19	12184SSAC	132701	30184SSAC	4	39.0	3.00	1.50	1.08	44AH	18SH

NOTE: Joint compound: fittings are ACSS-rated when installed with Fargo® HTJC-16 joint compound — see table below for number of 16 oz tubes required for deadend body and terminal components.

(1) To specify optional stainless steel terminal hardware, including required Belleville washers, add "SS" suffix to catalog number of deadend assembly or separately ordered terminal.

(2) To specify double tongue deadend assembly, change first character of catalog number from "S" to "D". To specify deadend assembly without jumper terminal, add "NT" suffix to catalog number.

(3) Deadends are full-tension rated for conductors with standard, aluminum-clad (AW), and high-strength (HS) steel cores.

(4) 15° jumper terminal allows for 0° or 30° jumper take-off angle from 15° deadend tongue. Separately ordered straight terminals may be specified by changing terminal component catalog number prefix from "30" to "33".

(5) Compression press minimum size: 20AH and smaller — 12 ton; 10SH and smaller — 12 ton; 24AH through 40AH — 60 ton; 12SH and larger — 60 ton; 42AH and larger — 100 ton.

Fargo Type HTJC-16 Joint Compound Required (Cartridges Per Fitting)

Component	Catalog Series	Die Size										
		76AH	20AH	24AH	27AH	30AH	34AH	36AH	38AH	40AH	42AH	44AH
Deadend Body	12 / 15	0.08	0.15	0.24	0.34	0.50	0.56	0.62	0.82	0.90	1.10	1.20
Jumper Terminal	30 / 33	0.03	0.04	0.06	0.07	0.10	0.14	0.16	0.18	0.22	0.25	0.30

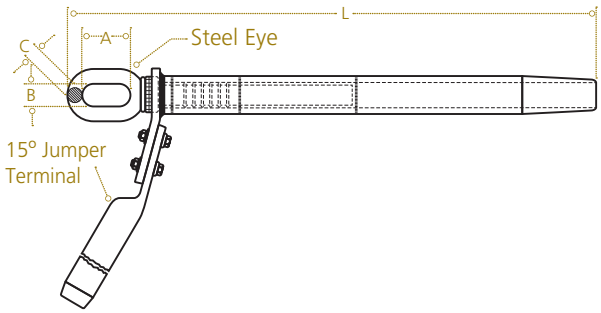
Conventional (Two Die) ACSS/TW Conductors

ALUMINUM/STEEL
SEDA/DEDA-STW

Full tension deadend assemblies for ACSS conductors consist of an aluminum deadend body, steel deadend eye, 15" jumper terminal and terminal mounting hardware. Terminal and tongue have NEMA hole spacing.

Material: Body – *seamless extruded aluminum alloy tube*
Eye – *galvanized forged steel*
Terminal – *seamless extruded aluminum alloy tube*
Terminal Hardware – ½ - 13 *aluminum alloy*[1]

IDENTIFICATION:
Conductor Size, Stranding & Type Die Size, Minimum Press Size, Fargo® Component Part Number, Date Code



Product Data and Conductor Size

Single Tongue[2] Deadend Assembly Catalog Number	ACSS Conductor[3]				Component Catalog Number			Bolt Holes	Length Before Compression Inches				Die Size[5]	
	Code Word	Kcmil	Type	Strand AL/STL	Aluminum Body	Steel Eye	Terminal 15°[4]		L	A	B	C	Alum	Steel
SEDA1323STW	Oriole/TW	336.4	23	16/7	12800STW	130232	30800STW	2	19.6	2.50	1.00	0.49	20AH	12SH
SEDA1813STW	Flicker/TW	477.0	13	18/7	12922STW	130235	30922STW	2	24.0	2.50	1.00	0.49	24AH	12SH
SEDA1816STW	Hawk/TW	477.0	16	18/7	12922STW	130234	30922STW	2	24.0	2.50	1.00	0.55	24AH	12SH
SEDA1823STW	Hen/TW	477.0	23	16/7	12922STW	130841	30922STW	2	24.0	2.50	1.00	0.55	24AH	14SH
SEDA2213STW	Parakeet/TW	556.5	13	18/7	12990STW	130233	30990STW	2	24.6	2.50	1.00	0.55	24AH	12SH
SEDA2216STW4	Dove/TW	556.5	16	20/7	12102STW	131037	30102STW	4	25.6	2.62	1.24	0.67	27AH	12SH
SEDA0216STW4	Calumet	565.3	16	20/7	12102STW	131037	30102STW	4	25.6	2.62	1.24	0.67	27AH	12SH
SEDA0113STW	Mohawk	571.7	13	18/7	12102STW	131034	30102STW	4	25.6	2.62	1.24	0.67	27AH	12SH
SEDA2513STW	Rook/TW	636.0	13	18/7	12107STW	130735	30102STW	4	25.3	2.50	1.00	0.55	27AH	12SH
SEDA2516STW	Grosbeak/TW	636.0	16	20/7	12102STW	130839	30102STW	4	25.6	2.62	1.24	0.67	27AH	14SH
SEDA0416STW	Oswego	664.6	16	20/7	12102STW	130839	30102STW	4	25.6	2.62	1.24	0.67	27AH	14SH
SEDA0313STW	Mystic	666.6	13	20/7	12107STW	130237	30102STW	4	25.6	2.62	1.00	0.55	27AH	12SH
SEDA0513STW	Maumee	768.2	13	20/7	12110STW	130849	30110STW	4	27.0	2.62	1.24	0.67	30AH	14SH
SEDA0616STW	Wabash	762.8	16	20/7	12110STW	130843	30110STW	4	27.0	2.62	1.24	0.67	30AH	14SH
SEDA3307STW	Tern/TW	795.0	7	17/7	12110STW	131030	30110STW	4	27.0	2.62	1.24	0.67	30AH	12SH
SEDA3313STW	Condor/TW	795.0	13	20/7	12110STW	130849	30110STW	4	27.0	2.62	1.24	0.67	30AH	14SH
SEDA3316STW	Drake/TW	795.0	16	20/7	12122STW	130952	30126STW	4	27.0	2.62	1.24	0.67	30AH	16SH
SEDA3323STW	Mallard/TW	795.0	23	22/19	12122STW	130951	30126STW	4	27.6	2.62	1.24	0.67	30AH	16SH
SEDA3813STW	Canary/TW	900.0	13	30/7	12122STW	131240	30126STW	4	27.6	2.62	1.24	0.67	30AH	14SH
SEDA0810STW	Frasier	946.7	10	35/7	12126STW	130848	30126STW	4	27.6	2.62	1.24	0.67	30AH	14SH
SEDA4107STW	Rail/TW	954.0	7	32/7	12126STW	131032	30126STW	4	27.6	2.62	1.24	0.67	30AH	12SH
SEDA4113STW	Cardinal/TW	954.0	13	20/7	12126STW	130952	30126STW	4	27.6	2.62	1.24	0.67	30AH	16SH
SEDA0707STW	Kettle	957.2	7	32/7	12126STW	131033	30126STW	4	27.6	2.62	1.24	0.67	30AH	12SH
SEDA1016STW	Suwanee	959.6	16	22/7	12126STW	130948	30126STW	4	27.6	2.62	1.24	0.67	30AH	16SH
SEDA0913STW	Columbia	966.2	13	21/7	12126STW	130949	30126STW	4	27.6	2.62	1.24	0.67	30AH	16SH
SEDA4407STW	Ortolan/TW	1033.5	7	32/7	12132STW	131632	30132STW	4	29.4	2.62	1.24	0.78	34AH	12SH
SEDA4413STW	Curlew/TW	1033.5	13	22/7	12133STW	131948	30132STW	4	29.6	2.62	1.24	0.78	34AH	16SH
SEDA4707STW	Bluejay/TW	1113.0	7	33/7	12133STW	131634	30132STW	4	29.6	2.62	1.24	0.78	34AH	12SH

Product Data and Conductor Size (*continued*)

Single Tongue[2] Deadend Assembly Catalog Number	ACSS Conductor[3]				Component Catalog Number			Bolt Holes	Length Before Compression Inches				Die Size[5]	
	Code Word	Kcmil	Type	Strand AL/STL	Aluminum Body	Steel Eye	Terminal 15°[4]		L	A	B	C	Alum	Steel
SEDA4713STW	Finch/TW	1113.0	13	38/19	12133STW	131949	30132STW	4	29.6	2.62	1.24	0.78	34AH	16SH
SEDA1407STW	Genesee	1158.0	7	33/7	12132STW	130847	30132STW	4	29.4	2.62	1.24	0.67	34AH	14SH
SEDA4813STW	Hudson	1158.4	13	25/7	12133STW	131949	30132STW	4	29.6	2.62	1.24	0.78	34AH	16SH
SEDA4907STW	Bunting/TW	1192.5	7	33/7	12133STW	131541	30132STW	4	29.6	2.62	1.24	0.78	34AH	14SH
SEDA4913STW	Grackle/TW	1192.5	13	38/19	12133STW	131955	30132STW	4	29.6	2.62	1.24	0.78	34AH	16SH
SEDA1913STW	Yukon	1233.6	13	38/19	12145STW	131950	30145STW	4	30.4	2.62	1.24	0.78	36AH	16SH
SEDA1707STW	Nelson	1257.1	7	35/7	12145STW	131540	30145STW	4	30.4	2.62	1.24	0.78	36AH	14SH
SEDA5107STW	Bittern/TW	1272.0	7	35/7	12145STW	131541	30145STW	4	31.2	2.26	1.24	0.78	36AH	14SH
SEDA5113STW	Pheasant/TW	1272.0	13	39/19	12141STW	132250	30141STW	4	31.5	2.62	1.24	0.94	36AH	18SH
SEDA2313STW	Thames	1334.6	13	39/19	12141STW	132250	30141STW	4	31.5	2.62	1.24	0.94	36AH	18SH
SEDA5207STW	Dipper/TW	1351.5	7	35/7	12145STW	131540	30145STW	4	31.2	2.62	1.24	0.78	36AH	14SH
SEDA5213STW	Martin/TW	1351.5	13	39/19	12151STW	132250	30149STW	4	33.4	2.62	1.24	0.94	38AH	18SH
SEDA5407STW	Bobolink/TW	1431.0	7	36/7	12151STW	1323391	30149STW	4	33.4	2.62	1.24	0.94	38AH	14SH
SEDA5413STW	Plover/TW	1431.0	13	39/19	12151STW	132251	30149STW	4	33.4	2.62	1.24	0.94	38AH	18SH
SEDA2713STW	Merrimack	1433.6	13	39/19	12151STW	132251	30149STW	4	33.4	2.62	1.24	0.94	38AH	18SH
SEDA3013STW	Rio Grande	1533.3	13	39/19	12151STW	132252	30149STW	4	33.4	2.62	1.24	0.94	38AH	18SH
SEDA2907STW	Potomac	1557.4	7	36/7	12151STW	132042	30149STW	4	33.4	2.62	1.24	0.94	38AH	16SH
SEDA5707STW	Lapwing/TW	1590.0	7	36/7	12157STW	132042	30157STW	4	33.4	2.62	1.24	0.94	40AH	16SH
SEDA5713STW	Falcon/TW	1590.0	13	42/19	12157STW	132254	30157STW	4	34.2	2.62	1.24	0.94	40AH	18SH
SEDA3107STW	Schukill	1657.4	7	36/7	12157STW	132042	30157STW	4	34.2	2.26	1.24	0.94	40AH	16SH
SEDA6008STW	Chukar/TW	1780.0	8	37/19	12167STW	132248	30167STW	4	35.1	2.62	1.24	0.94	42AH	18SH
SEDA3413STW	Cumberland	1926.9	13	42/19	12168STW	132703	30167STW	4	35.8	3.00	1.50	1.08	42AH	20SH
SEDA3607STW	Athabaska	1949.6	7	42/7	12167STW	132046	30167STW	4	35.1	2.62	1.24	0.94	42AH	16SH
SEDA6308STW	Bluebird/TW	2156.0	8	64/19	12184STW	1327516	30184STW	4	39.0	3.00	1.50	1.08	44AH	18SH

NOTE: Joint compound: fittings are ACSS-rated when installed with Fargo® HTJC-16 joint compound — see table below for number of 16 oz tubes required for deadend body and terminal components.

(1) To specify optional stainless steel terminal hardware, including required Belleville washers, add "SS" suffix to catalog number of deadend assembly or separately ordered terminal.

(2) To specify double tongue deadend assembly, change first character of catalog number from "S" to "D". To specify deadend assembly without jumper terminal, add "NT" suffix to catalog number.

(3) Deadends are full-tension rated for conductors with standard, aluminum-clad (AW), and high-strength (HS) steel cores.

(4) 15° jumper terminal allows for 0° or 30° jumper take-off angle from 15° deadend tongue. Separately ordered straight terminals may be specified by changing terminal component catalog number prefix from "30" to "33".

(5) Compression press minimum size: 20AH and smaller — 12 ton; 10SH and smaller — 12 ton; 24AH through 40AH — 60 ton; 12SH and larger — 60 ton; 42AH and larger — 100 ton.

Fargo Type HTJC-16 Joint Compound Required (Cartridges Per Fitting)

Component	Die Size										
	20AH	24AH	27AH	30AH	34AH	36AH	38AH	40AH	42AH	44AH	44AH
Deadend Body	0.15	0.24	0.34	0.50	0.56	0.62	0.82	0.90	1.10	1.20	1.20
Jumper Terminal	0.04	0.06	0.07	0.10	0.14	0.16	0.18	0.22	0.25	0.30	0.30

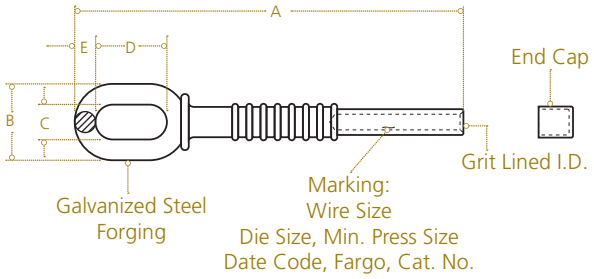
One Die System Static Wire Deadend Alumoweld® and EHS Steel

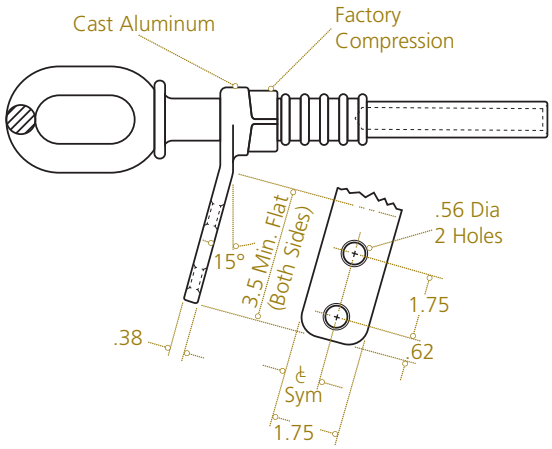
FORGED STEEL
86

A full-tension shield wire deadend assembly for Alumoweld conductor consists of a grit-lined steel body that is capped and sealed. Also available with a two-hole tongue or U-bolt pad factory compressed. Two-hole tongue has NEMA hole spacing.

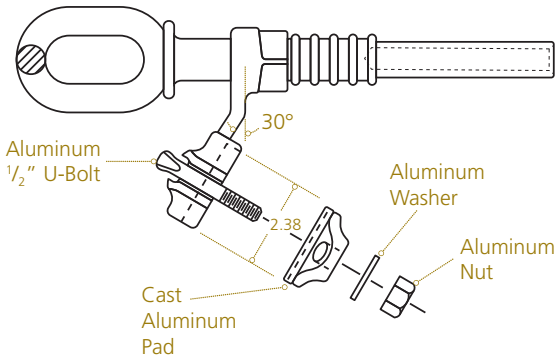
Material: Body – *galvanized forged steel*
Two-Hole Pad – *cast aluminum*
U-bolt & Hardware – *aluminum alloy*

IDENTIFICATION:
Conductor Size, Stranding & Type Die Size,
Minimum Press Size,
Minimum Press Size Fargo®,
Date Code, Uni-Grip®, Catalog Number





Suffix "S"
2-Hole Pad



Suffix "J"
U-Bolt Connector
(Range .220-.590)

Product Data and Cable Sizes

Catalog Number	Shield Wire Data			Die Size	Min Press Tons	Net Wt lb (kg)	Steel Eye Dimensions Inches (mm)				
	Outside Diameter Inches	EHS Steel	Alumoweld®				A	B	C	D	E
861022	0.306 - 0.313	5⁄16	7 # 10, 3 # 7	10SH	12	1.5 (.68)	10.6 (270)	1.98 (50)	1.00 (25)	2.5 (60)	.49 (12)
861225	0.343 - 0.375	3⁄8	7 # 9, 3 # 6	12SH	60	1.5 (.68)	10.6 (270)	1.98 (50)	1.00 (25)	2.5 (60)	.49 (12)
861227	0.385 - 0.392	—	7 # 8, 3 # 5	12SH	60	1.5 (.68)	10.6 (270)	1.98 (50)	1.00 (25)	2.5 (60)	.49 (12)
861430	0.417 - 0.438	7⁄16	7 # 7	14SH	60	3.0 (1.4)	13.4 (340)	2.58 (60)	1.24 (30)	2.62 (70)	.67 (17)
861635	0.486 - 0.500	½	7 # 6	16SH	60	3.0 (1.4)	13.4 (340)	2.58 (60)	1.24 (30)	2.62 (70)	.67 (17)

NOTE: For two hole pad add suffix "S." Examples: 861225S — Vertical Eye, 861225SH — Horizontal Eye. For U-bolt jumper pad add suffix "J." Examples: 861225J — Vertical Eye, 861225JH — Horizontal Eye. Consult factory for other wire sizes.

Deadends — *Compression*

Full-tension deadend assemblies for AAC conductors consist of an aluminum deadend body, steel deadend eye, 15" jumper terminal and terminal mounting hardware. Terminal and tongue have NEMA hole spacing.

ALUMINUM STEEL

SEDA/DEDA - 00

Product Data and Conductor Size

AAC Conductor Information											
Conductor			Outside Diameter Inches	Rated Strength lb	Assembly Number (Suffix)[1]	Deadend Catalog Number			15° Jumper Terminal Catalog Number[2]	Aluminim Compression Die	Min Press Size Tons
Kcmil Average	Strands	Code Word				Aluminum Single Tongue	Aluminum Double Tongue	Steel Eye			
795.0	37	Arbutus	1.026	13,900	3300	21107	24107	2210 EYE	30107	27AH	60
795.0	61	Lilac	1.028	14,300	3300	21107	24107	2210 EYE	30107	27AH	60
800.0	37	Fuchsia	1.029	14,000	3400	21110	24110	2210 EYE	30110	30AH	60
800.0	61	Heliotrope	1.031	14,500	3400	21110	24110	2210 EYE	30110	30AH	60
874.5	37	Anemone	1.077	15,000	3700	21114	24114	2210 EYE	30114	30AH	60
874.5	61	Crocus	1.078	15,800	3700	21114	24114	2210 EYE	30114	30AH	60
900.0	37	Cockscomb	1.092	15,400	3800	21117	24117	2210 EYE	30117	30AH	60
900.0	61	Snapdragon	1.094	15,900	3800	21117	24117	2210 EYE	30117	30AH	60
954.0	37	Magnolia	1.124	16,400	4100	21119	24119	2210 EYE	30119	30AH	60
954.0	61	Goldenrod	1.126	16,900	4100	21119	24119	2210 EYE	30119	30AH	60
1000.0	37	Hawkweed	1.151	17,200	4200	21119	24119	2210 EYE	30119	30AH	60
1000.0	61	Camellia	1.152	17,700	4200	21119	24119	2210 EYE	30119	30AH	60
1033.5	37	Bluebell	1.170	17,700	4400	21122	24122	2212 EYE	30122	30AH	60
1033.5	61	Larkspur	1.172	18,300	4400	21122	24122	2212 EYE	30122	30AH	60
1113.0	61	Marigold	1.216	19,700	4700	21127	24127	2212 EYE	30127	34AH	60
1192.5	61	Hawthorn	1.258	21,100	4900	21132	24132	2216 EYE	30132	34AH	60
1272.0	61	Narcissus	1.300	22,000	5100	21136	24136	2216 EYE	30136	34AH	60
1351.5	61	Columbine	1.340	23,400	5200	21141	24141	2216 EYE	30141	36AH	60
1431.0	61	Carnation	1.379	24,300	5400	21145	24145	2216 EYE	30145	36AH	60
1510.5	61	Gladiolus	1.417	25,600	5600	21149	24149	2218 EYE	30149	38AH	60
1590.0	61	Coreopsis	1.454	27,000	5700	21153	24153	2218 EYE	30153	38AH	60
1590.0	91	Dogwood	1.454	27,800	5700	21153	24153	2218 EYE	30153	38AH	60
1750.0	61	Jessamine	1.525	29,700	5900	21157	24157	2221 EYE	30157	40AH	60
2000.0	91	Cowslip	1.630	34,200	6200	21169	24169	2221 EYE	30169	42AH	100
2250.0	91	Sagebrush	1.729	37,700	6500	21178	24178	2221 EYE	30178	44AH	100
2300.0	61	Pigweed	1.748	39,000	6600	21181	24181	2225 EYE	30181	44AH	100
2500.0	91	Lupine	1.823	41,900	6800	21188	24188	2225 EYE	30188	44AH	100

NOTE: The deadend assemblies include the steel bodies, aluminum bodies, and jumper terminals (with mounting hardware). Install with Fargo® type UJC joint compound. For lowest resistance connection, install with Fargo type HTJC joint compound. For ACC conductors smaller than 795 kcmil, Fargo offers Uni-Grip® one die deadends.

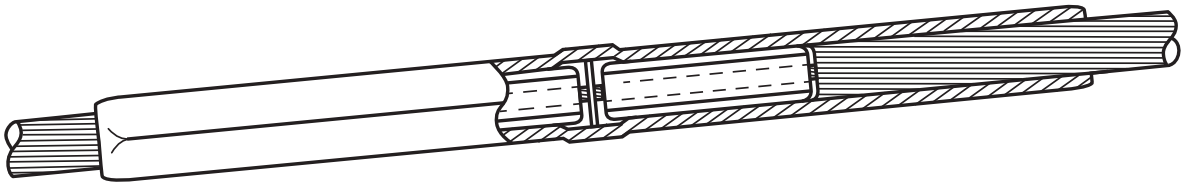
(1) To construct assembly catalog numbers

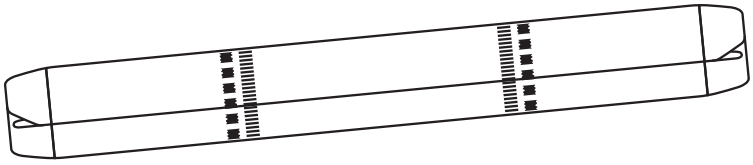
Step 1. Choose assembly type from following:
SEDA = single tongue, eye type, deadend assembly
DEDA = double tongue, eye type, deadend assembly

Step 2. Refer to conductor listing for assembly number (suffix)
example: SEDA-3300 = single tongue, eye type, deadend for 795 kcmil 37 strand "ARBUTUS"
Suffix "NT" = assembly without jumper terminal.

(2) 15° jumper terminal allows for 0° or 30° jumper take-off angle from 15° deadend tongue. Straight Terminals (15° deadend jumper take-off) may be specified by changing terminal catalog number prefix from "30" to "33."

Splices & Sleeves





power

Splices & Sleeves Index

Compression/Aluminum

A15 ..... Uni-Grip® Full-Tension Splice-ACSR D-1
AB15 ..... Uni-Grip® Full-Tension Splice-Alloy & ACAR D-4
C15 ..... Uni-Grip® Full-Tension Splice-AAC D-5
JLS ..... Uni-Grip® Jumper Loop Partial Tension Splice D-7
RS1700 ..... Repair Sleeve-AAC, AAAC, ACAR & ACSR D-18
RS1700SSAC ..... Repair Sleeve-ACSS D-19
RS1700STW ..... Repair Sleeve-ACSS/TW D-20
TJA ..... Full Tension Splice Assembly-ACSR D-8
TJA-SSAC ..... Full Tension Splice Assembly-ACSS D-11
TJA-STW ..... Full Tension Splice Assembly-ACSS/TW D-14
81/SWS ..... Full Tension Splice-Alumoweld® & EHS Steel D-17

Uni-Grip® (One Die) Full-Tension ACSR Conductors

ALUMINUM

A15

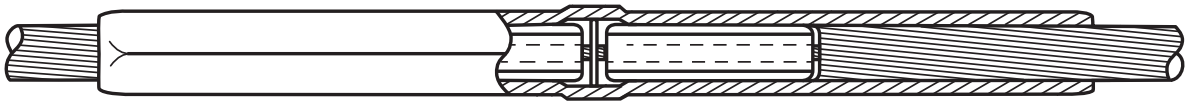
A splice assembly for ACSR consists of a prefilled aluminum body and two core wire gripping units.

Splices are prefilled with inhibitor and barrel ends plugged.

Material: Body – *seamless extruded aluminum alloy tube*
Gripping Unit – *aluminum alloy*

IDENTIFICATION:
SPLICE BODY:
- Conductor Type & Diameter Range
- Die Size, Minimum Press Size
- Part Number, Date Code

CORE GRIPPING UNIT:
- Conductor Type, Size & Stranding



Product Data and Conductor Size

Catalog Number	Kcmil	Stranding AL/ST	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	Die Size	Minimum Press Size Tons	Approx Wt lb (kg)
A150709	266.8	6/7	Owl	0.633	12.6 (320)	07CD	12	.60 (.27)
A150710	266.8	26/7	Partridge	0.642	12.6 (320)	07CD	12	.60 (.27)
A150811	300.0	26/7	Ostrich	0.680	14.4 (365)	08CD	12	.89 (.40)
A150812	336.4	18/1	Merlin	0.684	14.4 (365)	08CD	12	.89 (.40)
A150813	336.4	26/7	Linnet	0.721	14.4 (365)	08CD	12	.89 (.40)
A150914	336.4	30/7	Oriole	0.741	14.4 (365)	09CD	12	.89 (.40)
A150815	397.5	18/1	ChicKadee	0.743	14.4 (365)	08CD	12	.89 (.40)
A150916	397.5	24/7	Brant	0.772	16.2 (411)	09CD	12	1.3 (.58)
A150917	397.5	26/7	Ibis	0.783	16.2 (411)	09CD	12	1.3 (.58)

NOTE: For Extra Length repair splice, add "XL" suffix and repair cutoff length in inches. Example A151021XL24. For Self-Dampening (SD) and Trapezoidal (TW) and metric ACSR conductors consult factory. Splices are EHV rated where conductor is 1.0 in (25.4 mm) O.D. or larger.

Product Data and Conductor Size (*continued*)

Catalog Number	Kcmil	Stranding AL/ST	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	Die Size	Minimum Press Size Tons	Approx Wt lb (kg)
A150919	477.0	18/1	Pelican	0.814	16.2 (411)	09CD	12	1.3 (.58)
A150920	477.0	24/7	Flicker	0.846	16.2 (411)	09CD	12	1.3 (.58)
A1510211	477.0	26/7	Hawk	0.858	18.0 (457)	10CD	60	1.7 (.77)
A151122	477.0	30/7	Hen	0.883	19.8 (502)	11CD	60	2.4 (1.0)
A151023	556.5	18/1	Osprey	0.879	18.0 (457)	10CD	60	1.7 (.77)
A151024	556.5	24/7	Parakeet	0.914	18.0 (457)	10CD	60	1.7 (.77)
A151025	556.5	26/7	Dove	0.927	16.2 (411)	10CD	60	1.7 (.77)
A151126	556.5	30/7	Eagle	0.953	19.8 (502)	11CD	60	2.4 (1.0)
A151127	605.0	24/7	Peacock	0.953	19.8 (502)	11CD	60	2.4 (1.0)
A151128	605.0	26/7	Squab	0.966	19.8 (502)	11CD	60	2.4 (1.0)
A151229	605.0	30/19	Teal	0.994	21.6 (548)	12CD	60	3.0 (1.3)
A151030	636.0	36/1	Swift	0.930	18.0 (457)	10CD	60	1.7 (.77)
A151031	636.0	18/1	Kingbird	0.940	18.0 (457)	10CD	60	1.7 (.77)
A151132	636.0	24/7	Rook	0.977	19.8 (502)	11CD	60	2.4 (1.0)
A151133	636.0	26/7	Grosbeak	0.990	19.8 (502)	11CD	60	2.4 (1.0)
A151234	636.0	30/19	Egret	1.019	21.6 (548)	12CD	60	3.0 (1.3)
A151136	666.6	24/7	Flamingo	1.000	19.8 (502)	11CD	60	2.4 (1.0)
A151137	666.6	26/7	Gannett	1.014	19.8 (502)	11CD	60	2.4 (1.0)
A151138	715.5	24/7	Stilt	1.036	19.8 (502)	11CD	60	2.4 (1.0)
A151239	715.5	26/7	Starling	1.051	21.6 (548)	12CD	60	3.0 (1.3)
A151141	795.0	36/1	Coot	1.040	19.8 (502)	11CD	60	2.4 (1.0)
A151242	795.0	45/7	Tern	1.063	21.6 (548)	12CD	60	3.0 (1.3)
A151243	795.0	24/7	Cuckoo	1.092	21.6 (548)	12CD	60	3.0 (1.3)
A1512441	795.0	54/7	Condor	1.093	21.6 (548)	12CD	60	3.0 (1.3)
A1512451	795.0	26/7	Drake	1.108	21.6 (548)	12CD	60	3.0 (1.3)
A151346	795.0	30/19	Mallard	1.140	23.4 (594)	13CD	60	3.7 (1.6)
A151247	900.0	45/7	Ruddy	1.131	21.6 (548)	12CD	60	3.0 (1.3)
A151348	900.0	54/7	Canary	1.162	23.4 (594)	13CD	60	3.7 (1.6)
A151249	954.0	36/1	Catbird	1.140	21.6 (548)	12CD	60	3.0 (1.3)

Product Data and Conductor Size (*continued*)

Catalog Number	Kcmil	Stranding AL/ST	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	Die Size	Minimum Press Size Tons	Approx Wt lb (kg)
A151350	954.0	45/7	Rail	1.165	23.4 (594)	13CD	60	3.7 (1.6)
A1513511	954.0	54/7	Cardinal	1.196	23.4 (594)	13CD	60	3.7 (1.6)
A151353	1033.5	45/7	Ortolan	1.213	23.4 (594)	13CD	60	3.7 (1.6)
A151454	1033.5	54/7	Curlew	1.246	25.2 (640)	14CD	60	4.8 (2.1)
A151455	1113.0	45/7	Bluejay	1.259	25.2 (640)	14CD	60	4.8 (2.1)
A151456	1113.0	54/19	Finch	1.293	25.2 (640)	14CD	60	4.8 (2.1)
A151457	1192.5	45/7	Bunting	1.302	25.2 (640)	14CD	60	4.8 (2.1)
A151558	1192.5	54/19	Grackle	1.333	27.0 (685)	15CD	60	5.9 (2.6)
A1515591	1272.0	45/7	Bittern	1.345	27.0 (685)	15CD	60	5.9 (2.6)
A151560	1272.0	54/19	Pheasant	1.382	27.0 (685)	15CD	60	5.9 (2.6)
A151561	1351.5	45/7	Dipper	1.386	27.0 (685)	15CD	60	5.9 (2.6)
A151562	1351.5	54/19	Martin	1.424	27.0 (685)	15CD	60	5.9 (2.6)
A151663	1431.0	45/7	Bobolink	1.427	28.8 (731)	16CD	60	7.2 (3.2)
A151667	1590.0	45/7	Lapwing	1.502	28.8 (731)	16CD	60	7.2 (3.2)
A1517681	1590.0	54/19	Falcon	1.545	30.6 (777)	17CD	60	8.5 (3.8)
A151769	1780.0	84/19	Chukar	1.602	30.6 (777)	17CD	60	8.5 (3.8)
A151770	1869.0	68/7	Seahawk	1.603	30.6 (777)	17CD	60	8.5 (3.8)
A151871	2034.5	72/7	Mockingbird	1.681	32.4 (822)	18CD	100	10.0 (4.5)
A151972	2156.0	84/19	Bluebird	1.762	34.2 (868)	19CD	100	11.9 (5.3)
A151973	2167.0	72/7	Kiwi	1.735	34.2 (868)	19CD	100	11.9 (5.3)
A151974	2312.0	76/19	Thrasher	1.802	34.2 (868)	19CD	100	11.9 (5.3)
A152075	2515.0	76/19	Joree	1.880	36.0 (914)	20CD	100	14.0 (6.3)

Uni-Grip® (One Die) Full-Tension AAAC and ACAR Conductors

ALUMINUM

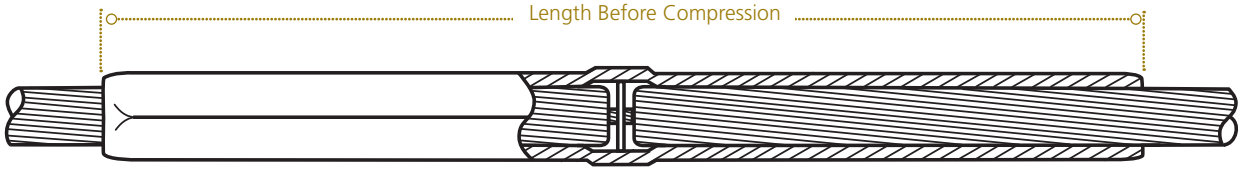
AB15

A splice assembly for alloy consists of a prefilled aluminum body.

Splices are prefilled with inhibitor and barrel ends plugged.

Material: Body – *seamless extruded aluminum alloy tube*

IDENTIFICATION:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code



Product Data and Conductor Size

Catalog Number	Conductor Ouside Diameter Range Inches	AAAC /ACAR Kcmil Range	Length Before Compression Inches (mm)	Die Size	Minimum Press Size Tons
AB150707	0.595-0.680	281.4-312.8	12.6 (320)	07CD	12
AB150808	0.681-0.765	394.5-419.6	14.4 (365)	08CD	12
AB150909	0.772-0.855	465.4-503.6	16.2 (411)	09CD	12
AB151010	0.856-0.950	545.0-657.3	19.8 (502)	10CD	60
AB151111	0.940-1.036	739.8-740.8	21.6 (548)	11CD	60
AB151212	1.026-1.131	833.6-932.6	23.4 (594)	12CD	60
AB151313	1.140-1.235	1000-1127	25.2 (640)	13CD	60
AB151414	1.236-1.330	1172-1300	27.0 (685)	14CD	60
AB151515	1.331-1.425	1361-1500	28.8 (731)	15CD	60
AB151616	1.426-1.520	1534-1703	30.6 (777)	16CD	60
AB151717	1.521-1.615	1750-1933	32.4 (822)	17CD	100
AB151919	1.630-1.805	2000-2300	34.2 (868)	19CD	100
AB152020	1.806-1.900	2493-2500	36.0 (914)	20CD	100

NOTE: For Extra Length repair splice, add "XL" suffix and repair cutoff length in inches Example A15 1021 XL 24. Splices are EHV rated where conductor is 1.0 in (25.4 mm) O.D. or larger.

Uni-Grip® (One Die) Full-Tension AAC Conductors

ALUMINUM

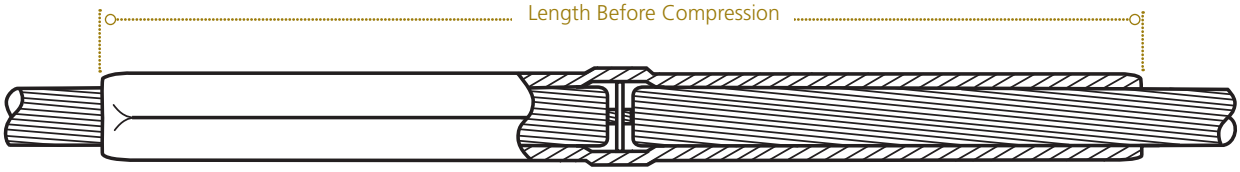
C15

A splice assembly for alloy consists of a prefilled aluminum body.

Splices are prefilled with inhibitor and barrel ends plugged.

Material: Body – *seamless extruded aluminum alloy tube*

IDENTIFICATION:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code



Product Data and Conductor Size

Catalog Number	Kcmil	Strands	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	Die Size	Minimum Press Size Tons	Approx Wt lb (kg)
C150707	300.0	19	Peony	0.629	8.4 (213)	07CD	12	.40 (.18)
C150707	336.4	19	Tulip	0.666	8.4 (213)	07CD	12	.40 (.18)
C150707	350.0	19	Daffodil	0.679	8.4 (213)	07CD	12	.40 (.18)
C150808	397.5	19	Canna	0.724	9.6 (243)	08CD	12	.59 (.26)
C150808	400.0	19	Four-O'Clock	0.726	9.6 (243)	08CD	12	.59 (.26)
C150909	450.0	19	Goldentuft	0.770	10.8 (274)	09CD	12	.85 (.38)
C150909	450.0	37	Yarrow	0.772	10.8 (274)	09CD	12	.85 (.38)
C150909	477.0	19	Cosmos	0.792	10.8 (274)	09CD	12	.85 (.38)
C150909	477.0	37	Syringa	0.795	10.8 (274)	09CD	12	.85 (.38)
C150909	500.0	19	Zinnia	0.811	10.8 (274)	09CD	12	.85 (.38)
C150909	500.0	37	Hyacinth	0.813	10.8 (274)	09CD	12	.85 (.38)
C150909	550.0	37	Ganzania	0.853	10.8 (274)	09CD	12	.85 (.38)
C151010	556.5	19	Dahlia	0.856	12.0 (304)	10CD	60	1.1 (.49)
C151010	556.5	37	Mistletoe	0.858	12.0 (304)	10CD	60	1.1 (.49)
C151010	600.0	37	Meadowsweet	0.891	12.0 (304)	10CD	60	1.1 (.49)
C151010	636.0	37	Orchid	0.918	12.0 (304)	10CD	60	1.1 (.49)
C151010	650.0	37	Heuchera	0.928	12.0 (304)	10CD	60	1.1 (.49)
C151111	700.0	37	Verbena	0.963	13.2 (335)	11CD	60	1.5 (.68)

Product Data and Conductor Size (*continued*)

Catalog Number	Kcmil	Strands	Code Word	Outside Diameter Inches	Length Before Compression Inches (mm)	Die Size	Minimum Press Size Tons	Approx Wt lb (kg)
C151111	700.0	61	Flag	0.964	13.2 (335)	11CD	60	1.5 (.68)
C151111	715.5	37	Violet	0.974	13.2 (335)	11CD	60	1.5 (.68)
C151111	715.5	61	Nasturtium	0.975	13.2 (335)	11CD	60	1.5 (.68)
C151111	750.0	37	Petunia	0.997	13.2 (335)	11CD	60	1.5 (.68)
C151111	750.0	61	Cattail	0.998	13.2 (335)	11CD	60	1.5 (.68)
C151111	795.0	37	Arbutus	1.026	13.2 (335)	11CD	60	1.5 (.68)
C151111	795.0	61	Lilac	1.028	13.2 (335)	11CD	60	1.5 (.68)
C151111	800.0	37	Fuchsia	1.029	13.2 (335)	11CD	60	1.5 (.68)
C151111	800.0	61	Heliotrope	1.031	13.2 (335)	11CD	60	1.5 (.68)
C151212	874.5	37	Anemone	1.077	14.4 (365)	12CD	60	2.0 (.90)
C151212	874.5	61	Crocus	1.078	14.4 (365)	12CD	60	2.0 (.90)
C151212	900.0	37	Cockscomb	1.092	14.4 (365)	12CD	60	2.0 (.90)
C151212	900.0	61	Snapdragon	1.094	14.4 (365)	12CD	60	2.0 (.90)
C151212	954.0	37	Magnolia	1.124	14.4 (365)	12CD	60	2.0 (.90)
C151212	954.0	61	Goldenrod	1.126	14.4 (365)	12CD	60	2.0 (.90)
C151313	1000.0	37	Hawkweed	1.151	15.6 (396)	13CD	60	2.5 (1.1)
C151313	1000.0	61	Camellia	1.152	15.6 (396)	13CD	60	2.5 (1.1)
C151313	1033.5	37	Bluebell	1.170	15.6 (396)	13CD	60	2.5 (1.1)
C151313	1033.5	61	Larkspur	1.172	15.6 (396)	13CD	60	2.5 (1.1)
C151313	1113.0	61	Marigold	1.216	15.6 (396)	13CD	60	2.5 (1.1)
C151414	1192.5	61	Hawthorn	1.258	16.8 (426)	14CD	60	3.2 (1.4)
C151414	1272.0	61	Narcissus	1.300	16.8 (426)	14CD	60	3.2 (1.4)
AC151515	1351.5	61	Columbine	1.340	18.0 (457)	15CD	60	3.9 (1.7)
AC151515	1431.0	61	Carnation	1.379	18.0 (457)	15CD	60	3.9 (1.7)
AC151515	1510.5	61	Gladiolus	1.417	18.0 (457)	15CD	60	3.9 (1.7)
C151616	1590.0	61	Coreopsis	1.454	19.2 (487)	16CD	60	4.8 (2.1)
C151616	1590.0	91	Dogwood	1.454	19.2 (487)	16CD	60	4.8 (2.1)
C151717	1750.0	61	Jessamine	1.525	20.4 (518)	17CD	60	5.7 (2.5)
C151818	2000.0	91	Cowslip	1.630	21.6 (548)	18CD	100	6.6 (2.9)
C151919	2250.0	91	Sagebrush	1.729	22.8 (579)	19CD	100	7.9 (3.5)
C151919	2300.0	61	Pigweed	1.748	22.8 (579)	19CD	100	7.9 (3.5)
AC152020	2500.0	91	Lupine	1.823	24.0 (609)	20CD	100	9.3 (4.2)
AC152020	2750.0	91	Bitterroot	1.912	24.0 (609)	20CD	100	9.3 (4.2)

NOTE: For extra length repair splice, add "XL" suffix and repair cutoff length in inches. Example A15 1021 XL 24. Splices are EHV rated where conductor is 1.0 in (25.4 mm) O.D. or larger.

Jumper Loop Limited Tension AAC, AAAC, ACAR and ACSR Conductor Splice

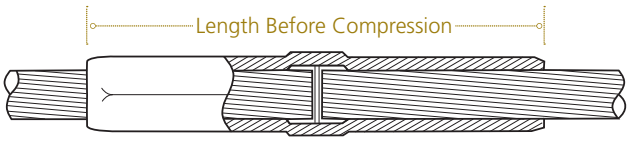
ALUMINUM

JLS

Jumper Loop Splices are prefilled with inhibitor and barrel ends are plugged.

Material: Body – *seamless extruded aluminum alloy tube*

IDENTIFICATION:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code



Product Data and Conductor Size

Catalog Number	Conductor Range[1] [2]			Length Before Compression Inches (mm)	Die Size	Minimum Press Size Tons	Approx Wt lb (kg)
	Outside Diameter Inches	AAC Size Kcmil	ACSR Size Kcmil (Str)				
JLS0707	0.595 - 0.680	300, 336.4, 350	266.8 (18/1) (6/7) (26/7) 300 (26/7)	7.0 (178)	07CD	12	.33 (.15)
JLS0808	0.681 - 0.765	350, 397.5, 400	336.4 (18/1) (26/7) (30/7) 395.5 (18/1)	8.0 (203)	08CD	12	.49 (.22)
JLS0909	0.772 - 0.855	450, 477, 500, 550	397.5 (24/7) (26/7) (30/7), 477 (18/1) (24/7)	9.0 (229)	09CD	12	.69 (.32)
JLS1010	0.856 - 0.950	556.5, 600, 636, 650	477 (26/7) (30/7), 556.5 (18/1) (24/7) (26/7), 636 (18/1) (36/1)	10.0 (254)	10CD	60	.95 (.44)
JLS1111	0.940 - 1.036	700, 715, 750, 795, 800	556.5 (30/7) 605 (24/7) (26/7) (30/19), 636 (18/1) – (30/19), 666 (24/7 (26/7), 715.5 (24/7), 795 (36/1)	11.0 (279)	11CD	60	1.3 (.56)
JLS1212	1.026 - 1.131	874.5, 900, 954	715.5 (26/7) (30/19), 795 (24/7) (26/7) (45/7), 795 (54/7) 900 (45/7)	12.0 (305)	12CD	60	1.7 (.77)
JLS1313	1.140 - 1.235	1000, 1033.5, 1100, 1113	795 (30/19), 900 (54/7), 954 (45/7) (54/7), 1033.5 (36/1) (45/7)	13.0 (333)	13CD	60	2.1 (.96)
JLS1414	1.236 - 1.330	1192.5, 1200, 1250, 1272, 1300	954 (30/19), 1113 (45/7) (54/19), 1192.5 (45/7) 1272 (36/1)	14.0 (356)	14CD	60	2.7 (1.2)
JLS1515	1.331 - 1.425	1351.5, 1400, 1431,1500, 1510.5	1192.5 (54/19), 1272 (45/7) (54/19), 1351.5 (45/7) (54/19)	15.0 (381)	15CD	60	3.1 (1.4)
JLS1616	1.426 - 1.520	1590, 1600, 1700	1431 (45/7) (54/19), 1510.5 (45/7) (54/19), 1590 (45/7)	16.0 (406)	16CD	60	3.8 (1.7)
JLS1717	1.521 - 1.615	1750, 1800, 1900	1590 (54/19), 1780 (84/19), 1869 (68/7)	17.0 (432)	17CD	60	4.7 (2.1)
JLS1818	1.616 - 1.710	2000	2034.5 (72/7)	18.0 (457)	18CD	100	5.6 (2.5)
JLS1919	1.711 - 1.805	2250, 2300	2167 (72/7), 2156 (84/19), 2312 (76/19)	19.0 (483)	19CD	100	6.5 (3.0)
JLS2020	1.806 - 1.900	2500	2515 (76/19)	20.0 (508)	20CD	100	7.6 (3.4)

(1) These splices also approved for minimum tension applications on AAAC and ACAR conductors within the diameter ranges listed.

(2) Repair sleeves are EHV rated where conductor is 1.0 (25.4 mm) O.D. or larger.

Conventional (Two Die) Full-Tension ACSR Conductors

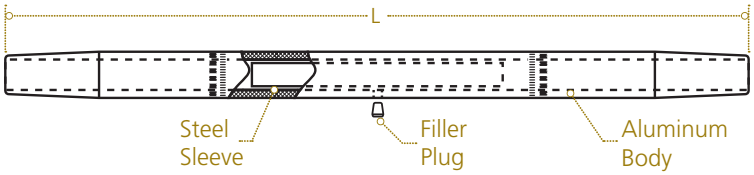
ALUMINUM

TJA

Splice assemblies for ACSR conductors consist of an aluminum splice body and steel sleeve.

Material: Body – *seamless extruded aluminum tube*
Steel Sleeve – *plated steel*

IDENTIFICATION:
Conductor Size, Stranding & Type
Die Size, Minimum Press Size
Fargo® Component, Part Number
Date Code



Product Data and Conductor Size

Full Tension Splice Assembly Catalog Number	ACSR Conductor[1]			Component Catalog Number		Jumper Loop Splice[2]	Length Before Compression Inches		Die Size[3]	
	Code Word	Kcmil	Strand AL / STL	Aluminum Body	Steel Sleeve		Full Tension	Loop Splice	Alum	Steel
TJA7829	Pigeon	3/0	6/1	10546	113S17	40546	16.2	5.8	75AH	75SH
TJA7929	Penguin	4/0	6/1	10609	114S20	40609	16.8	5.8	75AH	75SH
TJA1102	Waxwing	266.8	18/1	10657	11141	40657	19.0	6.3	76AH	74SH
TJA1109	Partridge	266.8	26/7	10688	11265	40688	19.0	6.3	76AH	76SH
TJA1302	Merlin	336.4	18/1	10740	11152	40740	21.3	6.5	20AH	74SH
TJA1309	Linnet	336.4	26/7	10800	11296	40800	21.7	7.0	20AH	10SH
TJA1313	Oriole	336.4	30/7	10800	11343	40800	21.7	7.0	20AH	10SH
TJA1502	Chickadee	397.5	18/1	10800	11173	40800	21.7	7.0	20AH	74SH
TJA1508	Brant	397.5	24/7	10845	11281	40845	22.9	7.3	20AH	10SH
TJA1509	Ibis	397.5	26/7	10845	11313	40845	22.9	7.3	20AH	10SH
TJA1513	Lark	397.5	30/7	10845	11368	40845	22.9	7.3	20AH	12SH
TJA1802	Pelican	477.0	18/1	10883	11177	40883	21.0	7.5	24AH	75SH
TJA1808	Flicker	477.0	24/7	10922	11313	40922	24.6	8.0	24AH	10SH
TJA1809	Hawk	477.0	26/7	10922	11344	40922	24.6	8.0	24AH	12SH
TJA1813	Hen	477.0	30/7	10950	11405	40950	24.6	8.0	24AH	12SH
TJA2202	Osprey	556.5	18/1	10950	11218	40950	24.6	8.0	24AH	75SH
TJA2208	Parakeet	556.5	24/7	10990	11328	40990	25.2	8.0	24AH	10SH
TJA2209	Dove	556.5	26/7	10990	11368	40990	25.2	8.0	24AH	12SH
TJA2213	Eagle	556.5	30/7	10107	11436	40107	27.9	9.0	27AH	14SH
TJA2408	Peacock	605.0	24/7	10102	11344	40102	27.9	9.0	27AH	12SH
TJA2409	Squab	605.0	26/7	10102	11390	40102	27.9	9.0	27AH	12SH

Product Data and Conductor Size (*continued*)

Full Tension Splice Assembly Catalog Number	ACSR Conductor[1]			Component Catalog Number		Jumper Loop Splice[2]	Length Before Compression Inches		Die Size[3]	
	Code Word	Kcmil	Strand AL / STL	Aluminum Body	Steel Sleeve		Full Tension	Loop Splice	Alum	Steel
TJA2413	Wood Duck	605.0	30/7	10107	11452	40107	27.9	9.0	27AH	14SH
TJA2417	Teal	605.0	30/19	10107	11452	40107	27.9	9.0	27AH	14SH
TJA2508	Rook	636.0	24/7	10107	11359	40107	27.9	9.0	27AH	12SH
TJA2509	Grosbeak	636.0	26/7	10107	11390	40107	27.9	9.0	27AH	12SH
TJA2513	Scoter	636.0	30/7	10107	11454	40107	27.9	9.0	27AH	14SH
TJA2517	Egret	636.0	30/19	10107	11454	40107	27.9	9.0	27AH	14SH
TJA2808	Flamingo	666.6	24/7	10107	11359	40107	27.9	9.0	27AH	12SH
TJA2809	Gannet	666.6	26/7	10107	11405	40107	27.9	9.0	27AH	12SH
TJA3008	Stilt	715.5	24/7	10110	11368	40110	30.9	10.0	30AH	12SH
TJA3009	Starling	715.5	26/7	10110	11407	40110	30.9	10.0	30AH	14SH
TJA3017	Redwing	715.5	30/19	10110	11500	40110	30.9	10.0	30AH	16SH
TJA3318	Tern	795.0	45/7	10114	11296	40114	30.9	10.0	30AH	10SH
TJA3308	Cuckoo	795.0	24/7	10117	11390	40117	30.9	10.0	30AH	12SH
TJA3321	Condor	795.0	54/7	10117	11390	40117	30.9	10.0	30AH	12SH
TJA3309	Drake	795.0	26/7	10117	11452	40117	30.9	10.0	30AH	14SH
TJA3317	Mallard	795.0	30/19	10122	11515	40122	31.4	10.5	30AH	16SH
TJA3721	Crane	874.5	54/7	10122	11405	40122	31.4	10.5	30AH	12SH
TJA3818	Ruddy	900.0	45/7	10122	11313	40122	31.4	10.5	30AH	10SH
TJA3821	Canary	900.0	54/7	10122	11407	40122	31.4	10.5	30AH	14SH
TJA4118	Rail	954.0	45/7	10122	11328	40122	31.4	10.5	30AH	10SH
TJA4119	Towhee	954.0	48/7	10126	11359	40126	31.4	10.5	30AH	14SH
TJA4121	Cardinal	954.0	54/7	10126	11452	40126	31.4	10.5	30AH	14SH
TJA4117	Canvasback	954.0	30/19	10132	11563	40132	32.8	11.3	34AH	18SH
TJA4418	Ortolan	1033.5	45/7	10127	11328	40127	32.8	11.3	34AH	10SH
TJA4421	Curlew	1033.5	54/7	10127	11436	40127	32.8	11.3	34AH	14SH
TJA4718	Bluejay	1113.0	45/7	10132	11344	40132	32.8	11.3	34AH	12SH
TJA4724	Finch	1113.0	54/19	10136	11454	40136	34.9	11.9	34AH	14SH
TJA4918	Bunting	1192.5	45/7	10136	11359	40136	34.9	11.9	34AH	12SH
TJA4924	Grackle	1192.5	54/19	10141	11454	40141	35.1	12.5	36AH	14SH
TJA5118	Bittern	1272.0	45/7	10141	11359	40141	36.3	12.5	36AH	12SH

Product Data and Conductor Size (*continued*)

Full Tension Splice Assembly Catalog Number	ACSR Conductor[1]			Component Catalog Number		Jumper Loop Splice[2]	Length Before Compression Inches		Die Size[3]	
	Code Word	Kcmil	Strand AL / STL	Aluminum Body	Steel Sleeve		Full Tension	Loop Splice	Alum	Steel
TJA5124	Pheasant	1272.0	54/19	10145	11500	40145	36.3	12.5	36AH	16SH
TJA5218	Dipper	1351.5	45/7	10145	11374	40145	36.3	12.5	36AH	12SH
TJA5224	Martin	1351.5	54/19	10149	11500	40149	36.3	13.3	38AH	16SH
TJA5418	Bobolink	1431.0	45/7	10145	11390	40145	35.1	12.5	36AH	12SH
TJA5424	Plover	1431.0	54/19	10149	11515	40149	36.3	13.3	38AH	16SH
TJA5618	Nuthatch	1510.5	45/7	10149	11390	40149	36.3	13.3	38AH	14SH
TJA5624	Parrot	1510.5	54/19	10157	11531	40157	36.3	13.3	40AH	16SH
TJA5718	Lapwing	1590.0	45/7	10157	11405	40157	36.3	13.3	40AH	12SH
TJA5724	Falcon	1590.0	54/19	10157	11546	40157	36.3	13.3	40AH	18SH
TJA6028	Chukar	1780.0	84/19	10167	11454	40167	37.6	14.5	42AH	14SH
TJA6105	Seahawk	1869.0	68/7	10167	11297	40167	37.6	14.5	42AH	12SH
TJA6205	Mockingbird	2034.5	72/7	10175	11360	40175	37.6	14.5	42AH	14SH
TJA6210	Roadrunner	2057.0	76/19	10175	11421	40175	37.6	14.5	42AH	12SH
TJA6328	Bluebird	2156.0	84/19	10184	11515	40184	40.0	15.3	44AH	16SH
TJA6425	Kiwi	2167.0	72/7	10181	11374	40181	40.0	15.3	44AH	12SH
TJA6610	Thrasher	2312.0	76/19	10188	11436	40188	40.7	15.7	44AH	14SH

NOTE: Splices are EHV rated where conductor is 1.0 in (25.4 mm) O.D. or larger. Joint compound: use Fargo® UJC16 Joint compound. Or, for lowest resistence connection, install with Fargo HTJC-16 compound. See table below for number of 16 oz tubes required per component.

(1) TJA splice assemblies are full-tension rated for conductors with standard strength steel cores.

(2) Loop splice is minimum tension connector (no steel sleeve component required).

(3) Compression press minimum size:
20AH and smaller — 12 ton
24AH through 40AH — 60 ton
42AH and larger — 100 ton
10SH and smaller — 12 ton
12SH and larger — 60 ton

Fargo Type UJC16 or HTJC16 Joint Compound Required (Cartridges per Fitting)

Component	Catalog Series	Die Size											
		74AH	75AH	76AH	20AH	24AH	27AH	30AH	34AH	36AH	38AH	42AH	44AH
FT Splice Body	10	0.04	0.05	0.10	0.20	0.32	0.44	0.60	0.94	0.98	1.10	1.10	1.40	1.52
Loop Splice	40	0.04	0.05	0.06	0.08	0.10	0.13	0.20	0.26	0.30	0.35	0.40	0.54	0.68

Conventional (Two Die) Full-Tension ACSS Conductors

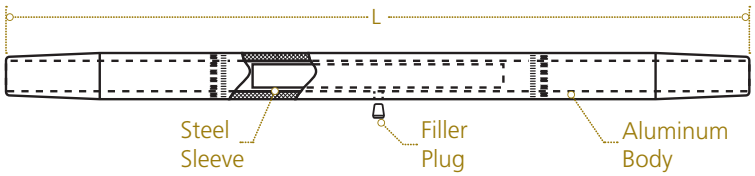
ALUMINUM

TJA-SSAC

Splice assemblies for ACSS conductors consist of an aluminum splice body and steel sleeve.

Material: Body – *seamless extruded aluminum alloy tube*
Steel Sleeve – *plated steel*

IDENTIFICATION:
Conductor Size, Stranding & Type Die Size, Minimum Press Size
Fargo® Component, Part Number
Date Code



Product Data and Conductor Size

Full Tension Splice Assembly Catalog Number	ACSS Conductor[1]			Component Catalog Number		Jumper Loop Splice[2]	Length Before Compression Inches		Die Size[3]	
	Code Word	Kcmil	Strand AL / STL	Aluminum Body	Steel Sleeve		Full Tension	Loop Splice	Alum	Steel
TJA1113SSAC	Junco	266.8	30/7	10740SSAC	11313	40740SSAC	24.5	16.5	20AH	10SH
TJA1109SSAC	Partridge	266.8	26/7	10734SSAC	11266	40734SSAC	23.2	15.2	76AH	10SH
TJA1309SSAC	Linnet	336.4	26/7	10800SSAC	11297	40800SSAC	26.5	16.5	20AH	12SH
TJA1313SSAC	Oriole	336.4	30/7	10800SSAC	11344	40800SSAC	26.5	16.5	20AH	12SH
TJA1508SSAC	Brant	397.5	24/7	10845SSAC	11281	40845SSAC	28.9	18.5	20AH	10SH
TJA1509SSAC	Ibis	397.5	26/7	10845SSAC	11312	40845SSAC	28.9	18.5	20AH	12SH
TJA1513SSAC	Lark	397.5	30/7	10845SSAC	11368	40845SSAC	28.9	18.5	20AH	12SH
TJA1808SSAC	Flicker	477.0	24/7	10922SSAC	11312	40922SSAC	32.1	20.5	24AH	12SH
TJA1809SSAC	Hawk	477.0	26/7	10922SSAC	11344	40922SSAC	32.1	20.5	24AH	12SH
TJA1813SSAC	Hen	477.0	30/7	10922SSAC	11406	40922SSAC	32.1	20.5	24AH	14SH
TJA2209SSAC	Dove	556.5	26/7	10102SSAC	11368	40102SSAC	35.8	23.1	27AH	12SH
TJA2213SSAC	Eagle	556.5	30/7	10102SSAC	11452	40102SSAC	35.8	23.1	27AH	14SH
TJA2408SSAC	Peacock	605.0	24/7	10102SSAC	11344	40102SSAC	35.8	23.1	27AH	12SH
TJA2408SSAC	Peacock	605.0	24/7	10102SSAC	11344	40102SSAC	35.8	23.1	27AH	12SH
TJA2409SSAC	Squab	605.0	26/7	10102SSAC	11391	40102SSAC	35.8	23.1	27AH	14SH
TJA2417SSAC	Teal	605.0	30/19	10102SSAC	11453	40102SSAC	35.8	23.1	27AH	16SH
TJA2413SSAC	Wood Duck	605.0	30/7	10102SSAC	11453	40102SSAC	35.8	23.1	27AH	16SH
TJA2517SSAC	Egret	636.0	30/19	10102SSAC	11469	40102SSAC	35.8	23.1	27AH	16SH
TJA2509SSAC	Grosbeak	636.0	26/7	10102SSAC	11406	40102SSAC	35.8	23.1	27AH	14SH
TJA2508SSAC	Rook	636.0	24/7	10107SSAC	11359	40107SSAC	35.8	23.1	27AH	12SH
TJA2513SSAC	Scoter	636.0	30/7	10102SSAC	11469	40102SSAC	35.8	23.1	27AH	16SH
TJA2808SSAC	Flamingo	666.6	24/7	10107SSAC	11359	40107SSAC	35.8	23.1	27AH	12SH

Product Data and Conductor Size (*continued*)

Full Tension Splice Assembly Catalog Number	ACSS Conductor[1]			Component Catalog Number		Jumper Loop Splice[2]	Length Before Compression Inches		Die Size[3]	
	Code Word	Kcmil	Strand AL / STL	Aluminum Body	Steel Sleeve		Full Tension	Loop Splice	Alum	Steel
TJA2809SSAC	Gannet	666.6	26/7	10107SSAC	11406	40107SSAC	35.8	23.1	27AH	14SH
TJA3017SSAC	Redwing	715.5	30/19	10110SSAC	11500	40110SSAC	38.7	25.8	30AH	16SH
TJA3009SSAC	Starling	715.5	26/7	10110SSAC	11407	40110SSAC	38.7	25.8	30AH	14SH
TJA3008SSAC	Stilt	715.5	24/7	10110SSAC	11375	40110SSAC	38.7	25.8	30AH	14SH
TJA3321SSAC	Condor	795.0	54/7	10117SSAC	11421	40117SSAC	38.7	25.8	30AH	14SH
TJA3308SSAC	Cuckoo	795.0	24/7	10110SSAC	11421	40110SSAC	38.7	25.8	30AH	14SH
TJA3309SSAC	Drake	795.0	26/7	10122SSAC	11453	40122SSAC	40.6	27.1	30AH	16SH
TJA3317SSAC	Mallard	795.0	30/19	10102SSAC	11516	40122SSAC	40.6	27.1	30AH	18SH
TJA3318SSAC	Tern	795.0	45/7	10110SSAC	11297	40110SSAC	40.6	25.8	30AH	12SH
TJA3821SSAC	Canary	900.0	54/7	10126SSAC	11407	40126SSAC	40.6	27.1	30AH	14SH
TJA3818SSAC	Ruddy	900.0	45/7	10126SSAC	11312	40126SSAC	40.6	27.1	30AH	12SH
TJA4117SSAC	Canvasback	954.0	30/19	10134SSAC	11563	40132SSAC	42.6	29.0	34AH	18SH
TJA4121SSAC	Cardinal	954.0	54/7	10126SSAC	11453	40126SSAC	40.6	27.1	30AH	16SH
TJA4118SSAC	Rail	954.0	45/7	10126SSAC	11329	40126SSAC	40.6	27.1	30AH	12SH
TJA4119SSAC	Towhee	954.0	48/7	10126SSAC	11360	40126SSAC	40.6	27.1	30AH	14SH
TJA4421SSAC	Curlew	1033.5	54/7	10132SSAC	11453	40132SSAC	42.6	29.0	34AH	16SH
TJA4418SSAC	Ortolan	1033.5	45/7	10132SSAC	11329	40132SSAC	42.6	29.0	34AH	12SH
TJA4718SSAC	Bluejay	1113.0	45/7	10132SSAC	11329	40132SSAC	42.6	29.0	34AH	12SH
TJA4724SSAC	Finch	1113.0	54/19	10136SSAC	11469	40136SSAC	44.4	30.6	34AH	16SH
TJA4918SSAC	Bunting	1192.5	45/7	10136SSAC	11360	40136SSAC	44.4	30.6	34AH	14SH
TJA4924SSAC	Grackle	1192.5	54/19	10136SSAC	11484	40145SSAC	45.5	32.3	36AH	16SH
TJA5118SSAC	Bittern	1272.0	45/7	10145SSAC	11360	40145SSAC	45.5	32.3	36AH	14SH
TJA5124SSAC	Pheasant	1272.0	54/19	10145SSAC	11501	40145SSAC	45.5	32.3	36AH	18SH
TJA5218SSAC	Dipper	1351.5	45/7	10145SSAC	11375	40145SSAC	45.5	32.3	36AH	14SH
TJA5224SSAC	Martin	1351.5	54/19	10149SSAC	11501	40149SSAC	46.3	34.0	38AH	18SH
TJA5418SSAC	Bobolink	1431.0	45/7	10149SSAC	11391	40149SSAC	46.3	34.0	38AH	14SH
TJA5424SSAC	Plover	1431.0	54/19	10149SSAC	11516	40149SSAC	46.3	34.0	38AH	18SH
TJA5618SSAC	Nuthatch	1510.5	45/7	10149SSAC	11392	40149SSAC	46.3	34.0	38AH	16SH
TJA5624SSAC	Parrot	1510.5	54/19	10157SSAC	11532	40157SSAC	47.0	35.4	40AH	18SH
TJA5724SSAC	Falcon	1590.0	54/19	10157SSAC	11546	40157SSAC	47.0	35.4	40AH	18SH

Product Data and Conductor Size (*continued*)

Full Tension Splice Assembly Catalog Number	ACSS Conductor[1]			Component Catalog Number		Jumper Loop Splice[2]	Length Before Compression Inches		Die Size[3]	
	Code Word	Kcmil	Strand AL / STL	Aluminum Body	Steel Sleeve		Full Tension	Loop Splice	Alum	Steel
TJA5718SSAC	Lapwing	1590.0	45/7	10157SSAC	11506	40157SSAC	47.0	35.4	40AH	16SH
TJA6028SSAC	Chukar	1780.5	84/19	10167SSAC	11569	40167SSAC	48.8	37.5	42AH	18SH
TJA6210SSAC	Roadrunner	2057.0	76/19	10167SSAC	11438	40167SSAC	48.8	37.5	42AH	16SH
TJA6328SSAC	Bluebird	2156.0	84/19	10184SSAC	11516	40184SSAC	50.7	39.1	44AH	18SH
TJA6610SSAC	Thrasher	2312.0	76/19	10184SSAC	11438	40184SSAC	52.0	40.8	44AH	18SH

NOTE: Splices are EHV rated where conductor is 1.0 in (25.4 mm) O.D. or larger. Joint compound: Fittings are ACSS-rated when installed with Fargo® HTJC16 joint compound — see table below for number of 16 oz tubes required for deadend body and terminal components.

(1) TJA splice assemblies are full-tension rated for ACSS conductors with standard high-strength (HS) and extra high-strength (EHS/UHS) steel cores.

(2) Loop splice is minimum tension connector (no steel sleeve component required).

(3) Compression press minimum size:
20AH and smaller — 12 ton
24AH through 40AH — 60 ton
42AH and larger — 100 ton
10SH and smaller — 12 ton
12SH and larger — 60 ton

Fargo Type HTJC16 Joint Compound Required (Cartridges Per Fitting)

Component	Catalog Series	Die Size										
		76AH	20AH	24AH	27AH	30AH	34AH	36AH	38AH	40AH	42AH	44AH
FT Splice Body	10	0.10	0.20	0.32	0.44	0.60	0.94	0.98	1.10	1.10	1.40	1.52
Loop Splice	40	0.06	0.08	0.10	0.13	0.20	0.26	0.30	0.35	0.40	0.54	0.68

Conventional (Two Die) Full-Tension ACSS/TW Conductors

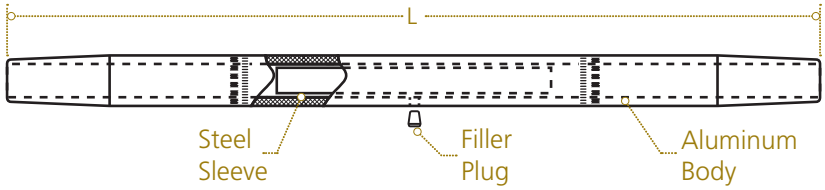
ALUMINUM

TJA-STW

Splice assemblies for ACSS/TW conductors consist of an aluminum splice body and steel sleeve.

Material: Body – *seamless extruded aluminum alloy tube*
Steel Sleeve – *plated steel*

IDENTIFICATION:
Conductor Size, Stranding & Type Die Size, Minimum Press Size
Fargo® Component, Part Number
Date Code



Product Data and Conductor Size

Full Tension Splice[1] Assembly Catalog Number	ACSS/TW Conductor[2]				Component Catalog Number		Jumper Loop Splice[3]	Length Before Compression Inches		Die Size	
	Code Word	Kcmil	Type	Strand AL / STL	Aluminum Body	Steel Sleeve		Full Tension	Loop Splice	Alum	Steel
TJA1323STW	Oriole/TW	336.4	23	16/7	10800STW	11344	40800STW	25.0	16.5	20AH	12SH
TJA1813STW	Flicker/TW	477.0	13	18/7	10922STW	11312	40922STW	32.1	20.5	24AH	12SH
TJA1816STW	Hawk/TW	477.0	16	18/7	10922STW	11344	40922STW	32.1	20.5	24AH	12SH
TJA1823STW	Hen/TW	477.0	23	16/7	10922STW	11406	40922STW	32.1	20.5	24AH	14SH
TJA2213STW	Parakeet/TW	556.5	13	18/7	10990STW	11329	40990STW	33.4	23.1	24AH	12SH
TJA2216STW	Dove/TW	556.5	16	20/7	10102STW	11368	40102STW	35.8	23.1	27AH	12SH
TJA0216STW	Calumet	565.3	16	20/7	10102STW	11368	40102STW	35.8	23.1	27AH	12SH
TJA0113STW	Mohawk	571.7	13	18/7	10102STW	11344	40102STW	35.8	23.1	27AH	12SH
TJA2513STW	Rook/TW	636.0	13	18/7	10107STW	11359	40107STW	35.8	23.1	27AH	12SH
TJA2516STW	Grosbeak/TW	636.0	16	20/7	10102STW	11406	40102STW	35.8	23.1	27AH	14SH
TJA0416STW	Oswego	664.6	16	20/7	10102STW	11406	40102STW	35.8	23.1	27AH	14SH
TJA0313STW	Mystic	666.6	13	20/7	10107STW	11359	40107STW	35.8	23.1	27AH	12SH
TJA0513STW	Maumee	768.2	13	20/7	10110STW	11391	40110STW	38.7	25.8	30AH	14SH
TJA0616STW	Wabash	762.8	16	20/7	10110STW	11452	40110STW	38.7	25.8	30AH	14SH
TJA3307STW	Tern/TW	795.0	7	17/7	10110STW	11297	40110STW	38.7	25.8	30AH	12SH
TJA3313STW	Condor/TW	795.0	13	20/7	10110STW	11421	40110STW	38.7	25.8	30AH	14SH
TJA3316STW	Drake/TW	795.0	16	20/7	10122STW	11453	40122STW	40.6	27.0	30AH	16SH
TJA3323STW	Mallard/TW	795.0	23	22/19	10122STW	11516	40122STW	40.6	27.0	30AH	18SH
TJA3813STW	Canary/TW	900.0	13	30/7	10122STW	11407	40122STW	40.6	27.0	30AH	14SH
TJA0810STW	Frasier	946.7	10	35/7	10126STW	11391	40126STW	40.6	27.0	30AH	14SH

Product Data and Conductor Size (*continued*)

Full Tension Splice[1] Assembly Catalog Number	ACSS/TW Conductor[2]				Component Catalog Number		Jumper Loop Splice[3]	Length Before Compression Inches		Die Size	
	Code Word	Kcmil	Type	Strand AL / STL	Aluminum Body	Steel Sleeve		Full Tension	Loop Splice	Alum	Steel
TJA4107STW	Rail/TW	954.0	7	32/7	10126STW	11329	40126STW	40.6	27.0	30AH	12SH
TJA4113STW	Cardinal/TW	954.0	13	20/7	10126STW	11453	40126STW	40.6	27.0	30AH	16SH
TJA0707STW	Kettle	957.2	7	32/7	10126STW	11312	40126STW	40.6	27.0	30AH	12SH
TJA1016STW	Suwanee	959.6	16	22/7	10126STW	11484	40126STW	40.6	27.0	30AH	16SH
TJA0913STW	Columbia	966.2	13	21/7	10126STW	11469	40126STW	40.6	27.0	30AH	16SH
TJA4407STW	Ortolan/TW	1033.5	7	32/7	10132STW	11329	40132STW	42.6	29.0	34AH	12SH
TJA4413STW	Curlew/TW	1033.5	13	22/7	10132STW	11453	40132STW	42.6	29.0	34AH	16SH
TJA4707STW	Bluejay/TW	1113.0	7	33/7	10132STW	11329	40132STW	42.6	29.0	34AH	12SH
TJA4713STW	Finch/TW	1113.0	13	38/19	10132STW	11469	40132STW	44.4	30.6	34AH	16SH
TJA1407STW	Genesee	1158.0	7	33/7	10132STW	11391	40132STW	44.4	30.6	34AH	14SH
TJA4813STWT	Hudson	1158.4	13	25/7	10132STW	11469	40132STW	44.4	30.6	34AH	16SH
TJA4907STW	Bunting/TW	1192.5	7	33/7	10132STW	11360	40132STW	44.4	30.6	34AH	14SH
TJA4913STW	Grackle/TW	1192.5	13	38/19	10145STW	11484	40145STW	45.5	32.3	36AH	16SH
TJA1913STW	Yukon	1233.6	13	38/19	10145STW	11484	40145STW	45.5	32.3	36AH	16SH
TJA1707STW	Nelson	1257.1	7	35/7	10136STW	11360	40136STW	44.4	30.6	34AH	14SH
TJA5107STW	Bittern/TW	1272.0	7	35/7	10145STW	11360	40145STW	45.5	32.3	36AH	14SH
TJA5113STW	Pheasant/TW	1272.0	13	39/19	10141STW	11501	40141STW	45.5	32.3	36AH	18SH
TJA2313STW	Thames	1334.6	13	39/19	10141STW	11501	40141STW	45.5	32.3	36AH	18SH
TJA5207STW	Dipper/TW	1351.5	7	35/7	10145STW	11375	40145STW	45.5	32.3	36AH	14SH
TJA5213STW	Martin/TW	1351.5	13	39/19	10149STW	11501	40149STW	46.3	34.0	38AH	18SH
TJA5407STW	Bobolink/TW	1431.0	7	36/7	10149STW	11391	40149STW	46.3	34.0	38AH	14SH
TJA5413STW	Plover/TW	1431.0	13	39/19	10149STW	11516	40149STW	46.3	34.0	38AH	18SH
TJA2713STW	Merrimack	1433.6	13	39/19	10149STW	11516	40149STW	46.3	34.0	38AH	18SH
TJA3013STW	Rio Grande	1533.3	13	39/19	10149STW	11532	40149STW	46.3	34.0	38AH	18SH
TJA2907STW	Potomac	1557.4	7	36/7	10149STW	11506	40149STW	46.3	34.0	38AH	16SH
TJA5707STW	Lapwing/TW	1590.0	7	36/7	10157STW	11469	40157STW	47.0	35.7	38AH	16SH
TJA5713STW	Falcon/TW	1590.0	13	42/19	10157STW	11546	40157STW	47.0	35.7	40AH	18SH
TJA3107STW	Schukill	1657.4	7	36/7	10157STW	11422	40157STW	47.0	35.7	40AH	16SH
TJA6008STW	Chukar/TW	1780.0	8	37/19	10167STW	11569	40167STW	48.8	37.5	42AH	18SH
TJA3413STW	Cumberland	1926.9	13	42/19	10167STW	11548	40167STW	48.8	37.5	42AH	20SH
TJA3607STW	Athabaska	1949.6	7	42/7	10167STW	11453	40167STW	48.8	37.5	42AH	16SH
TJA6308STW	Bluebird/TW	2156.0	8	64/19	10184STW	11516	40184STW	50.7	39.1	44AH	18SH

Continued on next page.

NOTE: Splices are EHV rated where conductor is 1.0 in (25.4 mm) O.D. or larger. Joint compound: Fittings are ACSS-rated when installed with Fargo® HTJC16 joint compound. See table below for number of 16 oz tubes required for deadend body and terminal connections.

(1) TJA splice assemblies ae full-tension rated for ACSS/TW conductors with standard high-strength (HS) and extra high-strength (EHS/UHS) steel cores.

(2) Loop splice is minimum tension connector (no steel sleeve component required).

(3) Compression press minimum size:
20AH and smaller — 12 ton
24AH through 40AH — 60 ton
42AH and larger — 100 ton
10SH and smaller — 12 ton
12SH and larger — 60 ton

Fargo Type HTJC16 Joint Compound Required (Cartridges Per Fitting)

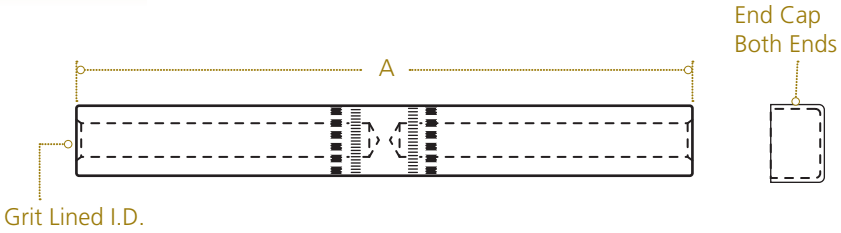
Component	Catalog Series	Die Size										
		76AH	20AH	24AH	27AH	30AH	34AH	36AH	38AH	40AH	42AH	44AH
FT Splice Body	10	0.10	0.20	0.32	0.44	0.60	0.94	0.98	1.10	1.10	1.40	1.52
Loop Splice	40	0.06	0.08	0.10	0.13	0.20	0.26	0.30	0.35	0.40	0.54	0.68

Compression Full-Tension Splice Alumoweld® and EHS Steel

ALUMINUM
81

Material: Body – *aluminum alloy (SWS series galvanized steel)*

IDENTIFICATION:
Wire Size
Die Size, Minimum Press Size
Part Number, Date Code



Product Data and Conductor Size

Catalog Number	Shield Wire Data			Length Before Compression Inches (mm)	Die Size	Minimum Press Size Tons	Net Wt lb (kg)
	Outside Diameter Inches	EHS Steel	Alumoweld				
811222	0.306 - 0.313	5⁄16	7 # 10, 3 # 7	8.0 (203)	12SH	60	.20 (.09)
811425	0.343 - 0.375	3⁄8	7 # 9, 3 # 6	9.9 (251)	14SH	60	.30 (.14)
811427	0.385 - 0.392	—	7 # 8, 3 # 5	10.7 (272)	14SH	60	.30 (.14)
811630	0.417 - 0.438	7⁄16	7 # 7	12.8 (325)	16SH	60	.40 (.20)
SWS100547	0.486 - 0.500	½	7 # 6	10.5 (267)	16SH	60	1.4 (.64)
SWS100578	0.540 - 0.547	—	7 # 5	10.5 (267)	16SH	60	1.3 (.59)
SWS125625	0.564 - 0.572	9⁄16	19 # 5	11.5 (292)	18SH	60	2.6 (1.2)

NOTE: Add "PC" suffix for factory loaded inhibitor. Example: 811425PC for extra length repair splice, add "XL" suffix and repair cutoff length in inches. Example: 811425XL24.

One Die Repair Sleeve AAC, AAAC, ACAR and ACSR Conductors

ALUMINUM

RS1700

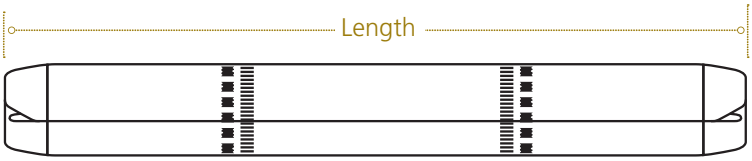
Two piece repair sleeve is used to restore electrical and mechanical integrity to conductors with damage to strands in the outer layer only.

If damage extends to the inner layer of aluminum or alloy strands, a full tension Extra Long XL repair splice should be used.



Material: Body – *aluminum alloy*

IDENTIFICATION:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code



Product Data and Conductor Size

Catalog Number	Conductor Range (1) (2)			Die Size(4)	Minimum Press Size Tons	Length Before Compression Inches (mm)	Net Wt lb (kg)
	Outside Diameter Inches(3)	AAC Size Kcmil	ACSR Size Kcmil (Str)				
RS1707	0.595 - 0.679	300, 336.4, 350	266.8 (18/1) (26/7) (30/7)	07CD	12	8.40 (213)	.40 (.18)
RS1708	0.680 - 0.765	350, 397.5, 400	300 (26/7) 336.4 (18/1) (26/7) (30/7) 397.5 (18/1)	08CD 76AH	12	9.60 (243)	.85 (.38)
RS1709	0.772 - 0.855	450, 477, 500, 550	397.5 (24/7) (26/7) (30/7) 477 (18/1)	09CD	12	10.80 (274)	.95 (.43)
RS1710	0.856 - 0.950	556.5, 600, 636, 650	477 (24/7) (26/7) (30/7) 556.5 (18/1) (24/7) (26/7) 636 (18/1)	10CD 24AH	60	12.00 (304)	1.2 (.38)
RS1711	0.940 - 1.036	700, 715, 795	556.5 (30/7), 605 (24/7) (26/7) (30/7) (30/19), 636 (18/1) – (30/19), 666 (24/7) (26/7), 715.5 (24/7)	11CD	60	13.20 (335)	1.6 (.72)
RS1712	1.026 - 1.131	795, 800, 874.5, 900, 954	715.5 (26/7) (30/19), 795 (24/7) (26/7) (45/7) (54/7) 795 (36/1), 900 (45/7)	12CD	60	14.40 (365)	2.0 (.90)
RS1713	1.140 - 1.235	1000, 1033.5	795 (30/19)	13CD 30AH	60	15.60 (396)	2.5 (1.1)
		1100, 1113	795 (30/19), 900 (54/7) 954 (45/7) (54/7) 1033.5 (36/1) (45/7)	13CD			
RS1714	1.236 - 1.330	1192.5, 1200, 1250, 1272, 1300	954 (30/19), 1033.5 (54/7) 1113 (45/7) (54/19) 1192.5 (45/7)	14CD 34AH	60	16.80 (426)	3.2 (1.4)
RS1715	1.331 - 1.425	1351.5, 1400, 1431, 1500, 1510.5	1192.5 (54/19) 1272 (45/7) (54/19) 1351.5 (45/7) (54/19)	15CD 36AH	60	18.00 (457)	4.0 (1.8)
RS1716	1.426 - 1.520	1590, 1600, 1700	1431 (45/7) (54/19, 1510.5 (45/7) (54/19) 1590 (45/7)	16CD 38AH	60	19.20 (487)	4.8 (2.2)
RS1717	1.521 - 1.615	1750, 1800, 1900	1590 (54/19), 1780 (84/19), 1869(68/7)	17CD 40AH	60	20.40 (518)	5.7 (2.6)
RS1719	1.630 - 1.805	2000, 2250, 2300	2034.5 (72/7), 2057 (76/19) 2167 (72/7)	19CD 40AH	100	22.80 (579)	8.0 (3.6)
		—	2156 (84/19), 2312 (76/19)	19CD			

(1) Install with Fargo® type UJC or, for lowest resistance repair, type HTJC inhibitor compound.

(2) Repair sleeves are EHV rated where conductor is 1.0 in (25.4 mm) O.D. or larger.

(3) Repair sleeves are suitable for EHV applications on conductors over 1 in O.D.

(4) Standard hex dies not available for some sleeve and conductor combinations. If no AH die listed for conductor, use only the CD die shown.

One Die Repair Sleeve ACSS Conductors

ALUMINUM

RS1700SSAC

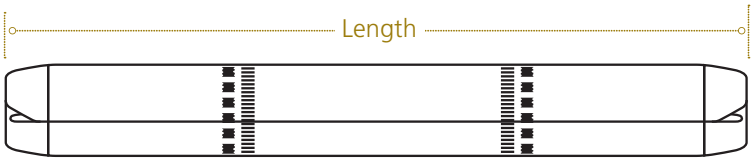
Two-piece repair sleeve is used to restore electrical and mechanical integrity to conductors with partial damage to aluminum strands.

The repair sleeves listed below will restore damaged ACSS cables where the damage section is not longer than 20% of repair splice length before crimping; and at least 50% of the aluminum strand and 100% of the steel core are undamaged.



Material: Body – *aluminum alloy*

IDENTIFICATION:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code



Product Data and Conductor Size

Catalog Number	ACSS Conductors[1]		Die Size[3]	Minimum Press Size Tons	Length Before Compression Inches (mm)	Net Wt lb (kg)
	Outside Diameter Inches[2]	Access Size Kcmil (Str)				
RS1707SSAC	0.595 - 0.679	266.8 (26/7) (30/7)	07CD	12	12.6 (307)	0.6 (0.27)
RS1708SSAC	0.680 - 0.765	300 (26/7) 336.4 (22/7) (26/7) (30/7)	08CD 76AH	12	14.4 (351)	1.3 (0.59)
RS1709SSAC	0.772 - 0.855	397.5 (24/7) (26/7) (30/7) 477 (24/7}	09CD	12	16.2 (395)	1.4 (0.64)
RS1710SSAC	0.856 - 0.950	477 (26/7) (30/7) 556.5 (24/7) (26/7)	10CD 24AH	60	18.0 (439)	1.8 (1.00)
RS1711SSAC	0.940 - 1.036	556.5 (30/7), 605 (24/7) (26/7) (30/7) 636 (24/7) (26/7) (30/7) (30/19) 666 (24/7) (26/7), 715.5 (24/7)	11CD	60	19.8 (483)	2.4 (1.09)
RS1712SSAC	1.026 - 1.131	715.5 (26/7) (30/19), 795 (24/7) (26/7) (45/7) (54/7) 900 (45/7)	12CD	60	21.6 (527)	3.0 (1.36)
RS1713SSAC	1.140 - 1.235	795 (30/19)	13CD 30AH	60	23.4 (571)	3.8 (1.73)
		900 (54/7) 954 (45/7) (54/7), 1033.5 (45/7)	13CD			
RS1714SSAC	1.236 - 1.330	954 (30/19), 1033.5 (54/7) 1113 (45/7) (54/19) 1192.5 (45/7)	14CD 34AH	60	25.2 (615)	4.8 (2.18)
RS1715SSAC	1.331 - 1.425	1192.5 (54/19) 1272 (45/7) (54/19) 1351.5 (45/7) (54/19)	15CD 36AH	60	27.0 (659)	6.0 (2.72)
RS1716SSAC	1.426 - 1.520	1431 (45/7) (54/19, 1510.5 (45/7) (54/19) 1590 (45/7)	16CD 38AH	60	28.8 (703)	7.2 (3.27)
RS1717SSAC	1.521 - 1.615	1590 (54/19) 1780 (84/19)	17CD 40AH	60	30.6 (747)	8.6 (3.90)
RS1719SSAC	1.630 - 1.805	2034.5 (72/7), 2057 (76/19)	19CD	100	34.2 (834)	12.0 (5.45)
		2156 (84/19), 2312 (76/19)	19CD			

(1) Install with Fargo® type HTJC inhibitor compound.

(2) Repair sleeves are suitable for EHV applications on conductors over 1.0 in O.D.

(3) Repair sleeves are EHV rated where conductor is 1.0 in (25.4 mm) O.D. or larger.

One Die Repair Sleeve ACSS/TW Conductors

ALUMINUM

RS1700STW

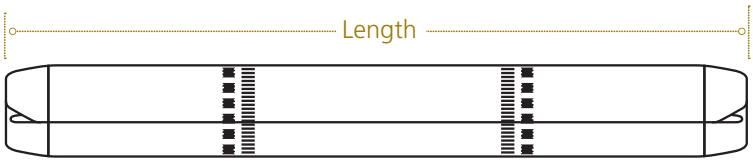
Two piece repair sleeve is used to restore electrical and mechanical integrity to conductors with partially damage to aluminum strands.

The repair sleeves listed below will restore damaged ACSS/TW cables where the damage section is not longer than 20% of repair splice length before crimping; and at least 50% of the aluminum strand and 100% of the steel core are undamaged.



Material: Body – *aluminum alloy*

IDENTIFICATION:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code



Product Data and Conductor Size

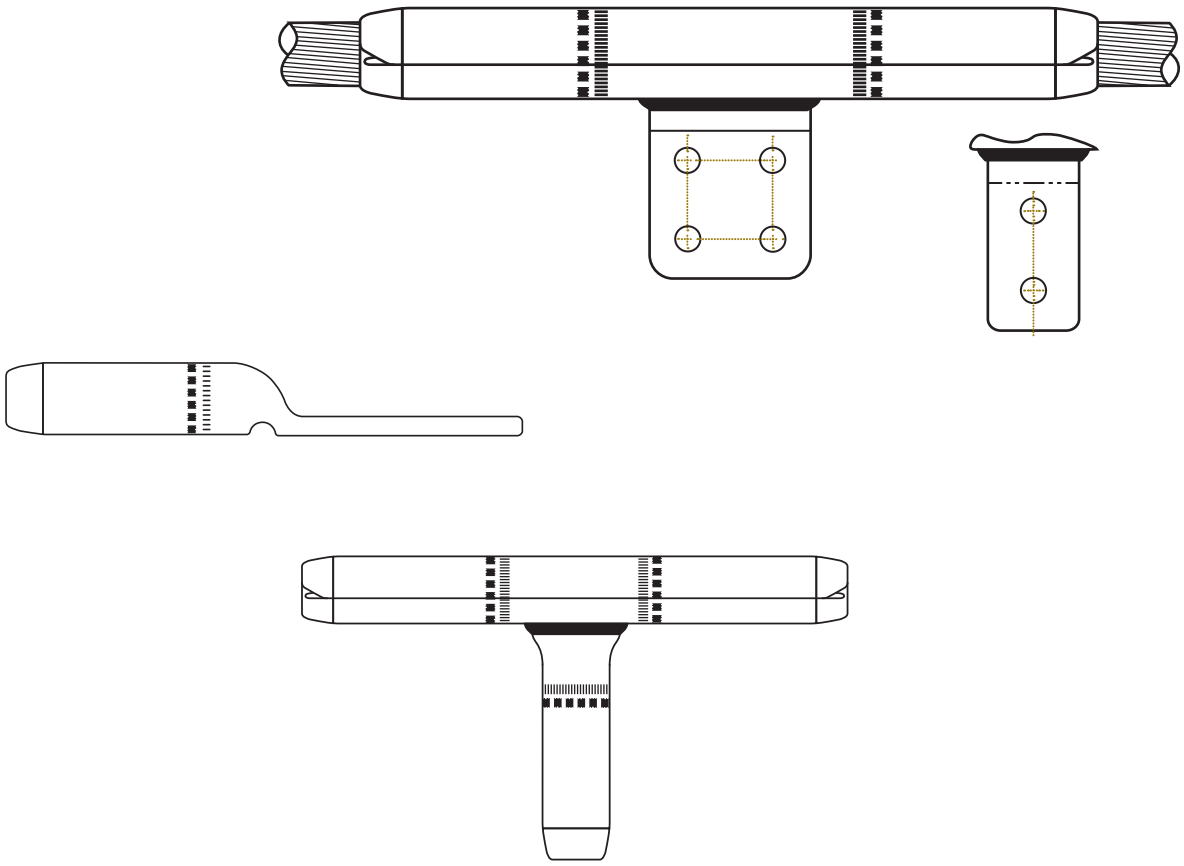
Catalog Number	ACSS/TW Conductor[1]		Die Size[3]	Minimum Press Size Tons	Length Before Compression Inches (mm)	Net Wt lb (kg)
	Outside Diameter Inches[2]	Kcmil Size (Type)				
RS1708STW	0.630 - 0.695	336.4 (18/7) T23	08CD 76AH	12	14.4 (351)	1.3 (0.59)
RS1709STW	0.721 - 0.776	477 (18/7) T13	09CD	12	16.2 (395)	1.4 (0.64)
RS1710STW	0.776 - 0.858	477 (18/7) T16 & T23 556 (18/7) T13 (20/7) T16 565.3 (18/7) T16, 571.7 (18/7) T13	10CD 24AH	60	18.0 (439)	1.8 (1.00)
RS1711STW	0.880 - 0.930	636.0 (19/7) T13 (20/7) T16 795.0 (17/7) T7 (20/7) T13 &T16	11CD	60	19.8 (483)	2.4 (1.09)
RS1712STW	0.960 - 1.010	762.8 (20/7) T13 & T16 795.0 (17/7) T7 (20/7) T13 & T16	12CD	60	21.6 (527)	3.0 (1.36)
RS1713STW	1.046 - 1.108	795.0 T23	13CD 30AH	60	23.4 (571)	3.8 (1.73)
		954 (32/7) T7 (20/7) T13 959.6 (22/7) T16, 966.2 (21/7) T13 1033.5 (32/7) T7	13CD			
RS1714STW	1.125 - 1.196	1033.5 (22/7) T13 1113 (32/7) T7, 1113 (38/19) T13 1158.0 (33/7) T7, 1158.4 (26/7) T13 1192.5 (33/7) T7	14CD 34AH	60	25.2 (615)	4.8 (2.18)
RS1715STW	1.212 - 1.300	1192.5 (38/19) T13, 1233.6 (38/19) T13 1272 (35/7) T7 (39/19) T13 1334.6 (39/19) T13, 1351.5 (35/7) T7 1351.5 (39/19) T13, 1431 (36/7) T7	15CD 36AH	60	27.0 (659)	6.0 (2.72)
RS1716STW	1.301 - 1.382	1431 (37/19) T13 1433.6 (39/19) T13, 1533.3 (39/19) T13 1590 (36/7) T7	16CD 38AH	60	28.8 (703)	7.2 (3.27)
RS1717STW	1.385 - 1.504	1590 (42/19) T13 1657.4 (36/7) T7, 1949.6 (42/7) T7	17CD 40AH	60	30.6 (747)	8.6 (3.90)
RS1719STW	1.504 - 1.608	1929.6 (42/19) T13, 1949.6 (42/7) T7 2153.8 (64/19) T7, 2156 (64/19) T8	19CD	100	34.2 (834)	12.0 (5.45)

(1) Install with Fargo® type HTJC inhibitor compound.

(2) Repair sleeves are suitable for EHV applications on conductors over 1.0 in O.D.

(3) Repair sleeves are EHV rated where conductor is 1.0 in (25.4 mm) O.D. or larger.

Jumper Terminals and Tee Taps



delivery

Jumper Terminals & Tee Taps Index

Compression/Aluminum

JTS ..... Straight Pad for AAC, AAAC, ACAR & ACSR Conductor E-1
JTF..... 15 Degree Pad for AAC, AAAC, ACAR & ACSR Conductor..... E-3
ORT21..... Cable to Pad, Open Run, AAC, AAAC, ACAR & ACSR Conductor E-7
ORT21SSAC ..... Cable to Pad, Open Run, ACSS..... E-8
ORT21STW. ..... Cable to Pad, Open Run, ACSS/TW E-9
ORT22..... Cable to Cable, Open Run, AAC, ALLOY, ACAR AND ACSR Conductors E-10
30..... 15 Degree Terminal Alumoweld® & EHS Steel E-6
33..... Straight Terminal Alumoweld® & EHS Steel..... E-5

Compression Straight Pad AAC, AAAC, ACAR and ACSR Conductor Jumper Terminal

ALUMINUM

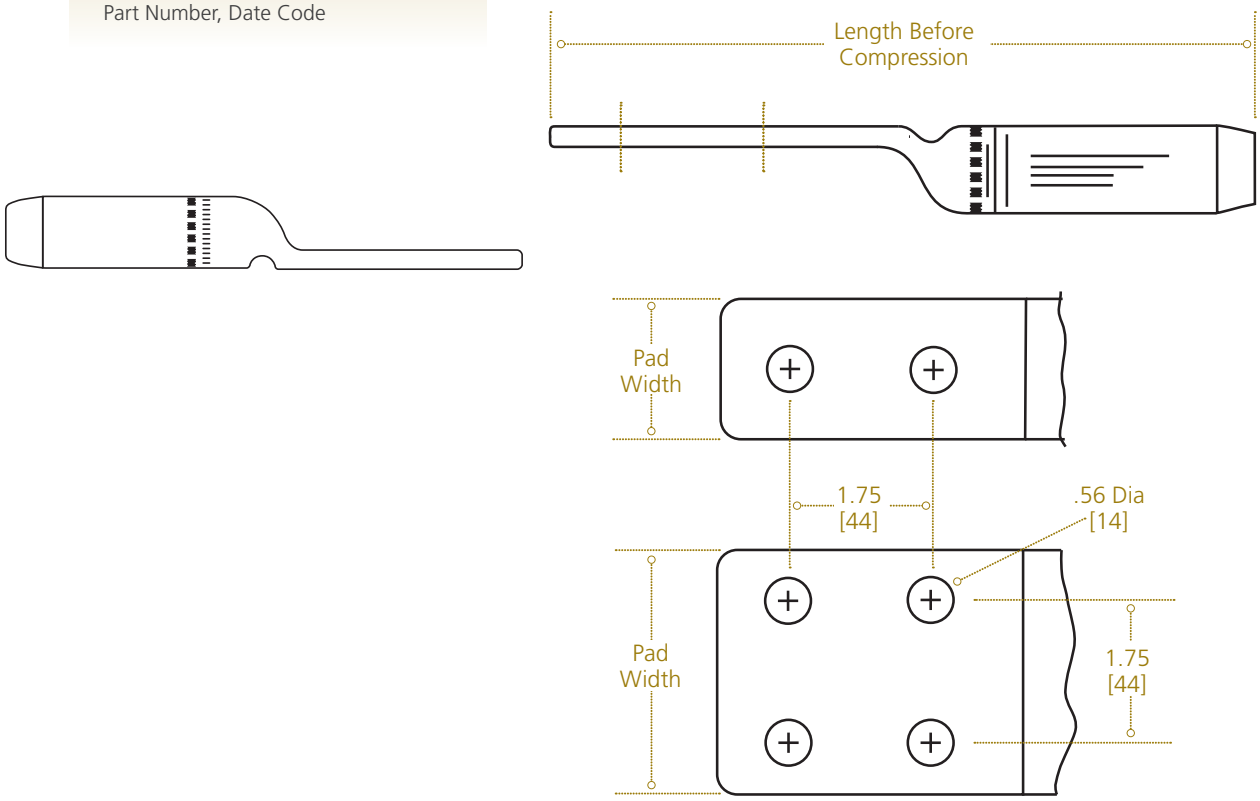
JTS

Jumper terminals are prefilled with inhibitor. Tongue holes have NEMA spacing. Standard hardware includes one aluminum ½ - 13 bolt, nut and two aluminum washers per .56 diameter hole.

Jumper terminals for conductors 1.00 inch diameter or larger are EHV rated.

Material: Terminal – *seamless extruded aluminum alloy tube*
Hardware – *aluminum alloy*

IDENTIFICATION:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code



Product Data and Conductor Size

Catalog Number	Conductor Range[1]			Pad Width Inches (mm) — Holes	Length Inches (mm)	Die Size	Minimum Press Tons	Net Weight lb (kg)
	Outside Diameter Inches[2] Std Cond / Compact/TW	AAC Size Kcmil	ACSR Kcmil (Str) ACSR/TW (Typ)					
JTS07	0.595-0.679	300-350	266.8 (26/7) - 336.4 (18/1)	1.7 (44) — 2	9.2 (234)	07CD	12	0.4 (.19)
	0.547-0.611							
JTS08	0.680-0.765	397.5-400	336.4 (18/1) - 397.5 (20/7)	1.7 (44) — 2	9.8 (249)	08CD	12	0.6 (.27)
	0.630-0.695		336.4 (T23)					
JTS09	0.766-0.855	450-550	397.5 (24/7) - 477 (24/7)	2.2 (56) — 2	10.4 (264)	09CD	12	0.8 (.36)
	0.702-0.776		397.5 (T13) - 477 (T13)					
JTS10	0.856-0.950	556.5-650	477 (26/7) - 636 (18/1)	2.2 (56) — 2	11.4 (290)	10CD	60	1.1 (.49)
	0.789-0.858		477 (T16) - 565.3 (T16)					
JTS11	0.950-1.045	700-795	636 (18/1) - 795 (36/1)	3.0 (76) — 4	12.1 (307)	11CD	60	1.5 (.68)
	0.880-0.930		636 (T13) - 664.6 (T13)					
JTS12	1.026-1.131	795-954	795 (36/1) - 900 (45/7)	3.0 (76) — 4	12.7 (323)	12CD	60	1.8 (.81)
	0.960-1.010		795 (T7) - 795 (T16)					
JTS13	1.140-1.235	1000-1113	795 (30/19) - 1033.5 (45/7)	3.0 (76) — 4	13.4 (340)	13CD	60	2.2 (.99)
	1.046-1.108		795 (T23) - 959.5 (T16)					
JTS14	1.236-1.330	1192.5-1300	954 (30/19) - 1272 (36/1)	3.0 (76) — 4	14.0 (356)	14CD	60	2.7 (1.2)
	1.125-1.196		1035 (T13) - 1158.4 (T13)					
JTS15	1.331-1.425	1351.5-1510.5	1192.5 (54/19) - 1351.5 (54/19)	3.0 (76) — 4	14.6 (371)	15CD	60	3.1 (1.4)
	1.212-1.300		1192.5 (T13) - 1351.5 (T13)					
JTS16	1.426-1.520	1590-1700	1431 (45/7) -1590 (45/7)	3.0 (76) — 4	15.9 (404)	16CD	60	3.9 (1.7)
	1.290-1.382		1431 (T7) - 1590 (T7)					
JTS17	1.521-1.615	1750-1900	1590 (54/19)-1868 (68/7)	4.0 (102) — 4	16.5 (419)	17CD	60	4.7 (2.1)
	1.385-1.504		1590 (T13) - 1949.6 (T7)					
JTS19	1.630-1.805	2000-2300	2034.5 (72/7) - 2312 (76/19)	4.0 (102) — 4	17.8 (452)	19CD	100	6.1 (2.8)
	1.504-1.608		1926.9 (T13) - 2156 (T8)					
JTS20	1.806-1.900	2500	2515 (76/19)	4.0 (102) — 4	18.4 (467)	20CD	100	7.1 (3.2)
	1.662-1.710							

NOTE: Conventional (AH Die) jumper terminals in catalog number series 33XXX listed separately. To specify stainless steel hardware add "SS" to catalog number. Example: JTS12SS

(1) Compact AAC and ACSR/TW conductor terminal diameter ranges are the lower of the dual listings.

(2) These terminals also approved for minimum tension applications on AAAC and ACAR conductors within the diameter ranges.

Compression 15° Pad AAC, AAAC, ACAR and ACSR Conductor Jumper Terminal

ALUMINUM

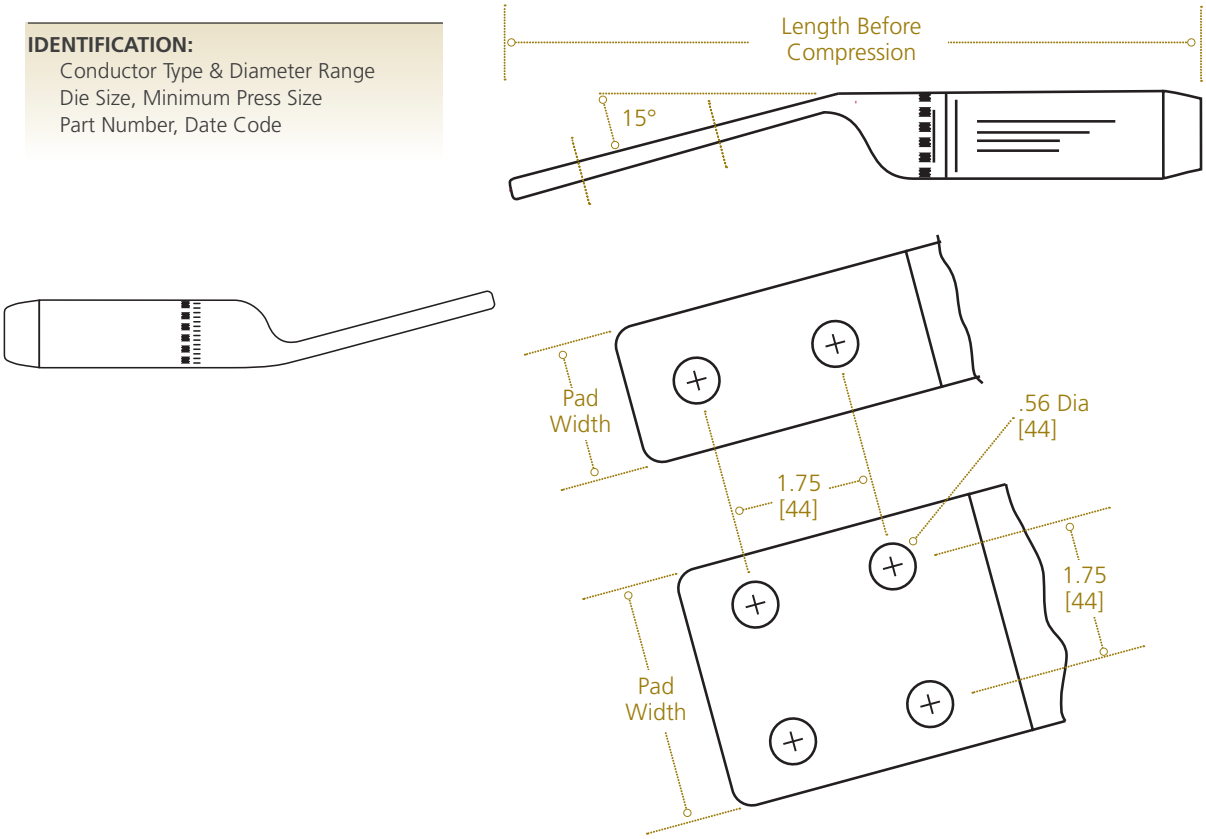
JTF

Jumper terminals are prefilled with inhibitor. Tongue holes have NEMA spacing. Standard hardware includes one aluminum ½ - 13 bolt, nut and two aluminum washers per .56 diameter hole.

Jumper terminals for conductors 1.00 inch diameter or larger are EHV rated.

Material: Terminal – *seamless extruded aluminum alloy tube*
Hardware – *aluminum alloy*

IDENTIFICATION:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code



assurance

Jumper Terminals

Product Data and Conductor Size

Catalog Number	Conductor Range[1]			Pad Width	Length Inches (mm)	Die Size	Minimum Press Tons	Net Weight lb (kg)
	Outside Diameter Inches[2] Std Cond / Compact/TW	AAC Size Kcmil	ACSR Kcmil (Str) ACSR/TW (Typ)					
JTF07	0.595-0.679 0.547-0.611	300-350	266.8 (26/7) - 336.4 (18/1)	1.7 (44) — 2	9.2 (234)	07CD	12	0.4 (.19)
JTF08	0.680-0.765 0.630-0.695	397.5-400	336.4 (18/1) - 397.5 (20/7) 336.4 (T23)	1.7 (44) — 2	9.8 (249)	08CD	12	0.6 (.27)
JTF09	0.766-0.855 0.702-0.776	450-550	397.5 (24/7) - 477 (24/7) 397.5 (T13) - 477 (T13)	2.2 (56) — 2	10.4 (264)	09CD	12	0.8 (.36)
JTF10	0.856-0.950 0.789-0.858	556.5-650	477 (26/7) - 636 (18/1) 477 (T16) - 565.3 (T16)	2.2 (56) — 2	11.4 (290)	10CD	60	1.1 (.49)
JTF11	0.950-1.045 0.880-0.930	700-795	636 (18/1) - 795 (36/1) 636 (T13) - 664.6 (T13)	3.0 (76) — 4	12.1 (307)	11CD	60	1.5 (.68)
JTF12	1.026-1.131 0.960-1.010	795-954	795 (36/1) - 900 (45/7) 795 (T7) - 795 (T16)	3.0 (76) — 4	12.7 (323)	12CD	60	1.8 (.81)
JTF13	1.140-1.235 1.046-1.108	1000-1113	795 (30/19) - 1033.5 (45/7) 795 (T23) - 959.5 (T16)	3.0 (76) — 4	13.4 (340)	13CD	60	2.2 (.99)
JTF14	1.236-1.330 1.125-1.196	1192.5-1300	954 (30/19) - 1272 (36/1) 1035 (T13) - 1158.4 (T13)	3.0 (76) — 4	14.0 (356)	14CD	60	2.7 (1.2)
JTF15	1.331-1.425 1.212-1.300	1351.5-1510.5	1192.5 (54/19) - 1351.5 (54/19) 1192.5 (T13) - 1351.5 (T13)	3.0 (76) — 4	14.6 (371)	15CD	60	3.1 (1.4)
JTF16	1.426-1.520 1.290-1.382	1590-1700	1431 (45/7) -1590 (45/7) 1431 (T7) - 1590 (T7)	3.0 (76) — 4	15.9 (404)	16CD	60	3.9 (1.7)
JTF17	1.521-1.615 1.385-1.504	1750-1900	1590 (54/19)-1868 (68/7) 1590 (T13) - 1949.6 (T7)	4.0 (102) — 4	16.5 (419)	17CD	60	4.7 (2.1)
JTF19	1.630-1.805 1.504-1.608	2000-2300	2034.5 (72/7) - 2312 (76/19) 1949.6 (T7) - 2156 (T8)	4.0 (102) — 4	17.8 (452)	19CD	100	6.1 (2.8)
JTF20	1.806-1.900 1.662-1.710	2500	2515 (76/19)	4.0 (102) — 4	18.4 (467)	20CD	100	7.1 (3.2)

NOTE: Conventional (AH Die) jumper terminals in catalog number series 33XXX listed separately. To specify stainless steel hardware add "SS" to catalog number. Example: JTF09SS

(1) Compact AAC and ACSR/TW conductor terminal diameter ranges are the lower of the dual listings.

(2) These terminals also approved for minimum tension applications on AAAC and ACAR conductors within the diameter ranges.

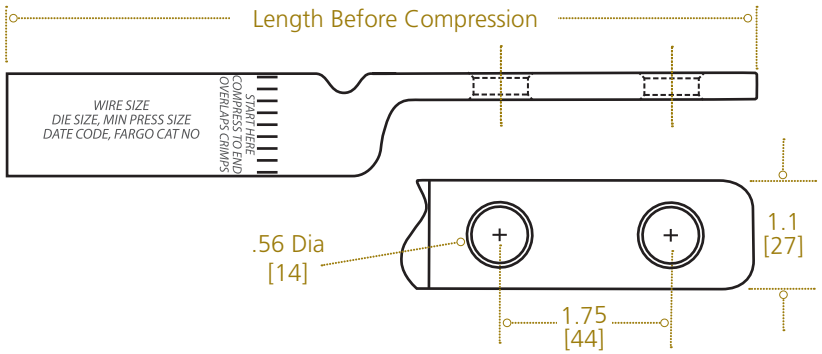
Compression Straight Terminal Alumoweld® and EHS Steel Shield Wire Terminal

ALUMINUM
33

The bore is capped and pad holes have NEMA spacing. Standard hardware includes two aluminum ½ - 13 bolts, nuts and four aluminum washers.

Material: Body – *aluminum alloy*
Hardware – *aluminum alloy*

IDENTIFICATION:
Wire Type & Size
Die Size, Minimum Press Size
Part Number, Date Code



Product Data and Wire Size

Catalog Number	Shield Wire Data			Length Before Compression Inches (mm)	Die Size	Minimum Press Tons	Net Weight lb (kg)
	Outside Diameter Inches	EHS Steel	Alumoweld				
331022	0.306-0.313	5/16	7 # 10, 3 # 7	7.2 (180)	10SH	12	.18 (.08)
331225	0.343-0.375	3/8	7 # 9, 3 # 6	7.4 (190)	12SH	60	.27 (.12)
331227	0.385-0.392	—	7 # 8, 3 # 5	7.6 (190)	12SH	60	.38 (.17)
331430	0.417-0.438	7/16	7 # 7	7.6 (190)	14SH	60	.40 (.18)
331635SW	0.486-0.500	½	7 # 6	7.8 (200)	16SH	60	.57 (.26)

Compression Straight Terminal Alumoweld® and EHS Steel Shield Wire Terminal

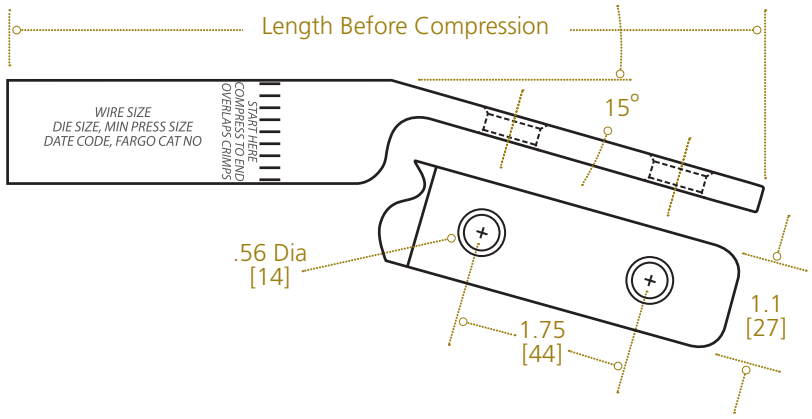
ALUMINUM

30

The bore is capped and pad holes have NEMA spacing. Standard hardware includes two aluminum ½ - 13 bolts, nuts and four aluminum washers.

Material: Body – *aluminum alloy*
Hardware – *aluminum alloy*

IDENTIFICATION:
Wire Type & Size
Die Size, Minimum Press Size
Part Number, Date Code



Product Data and Wire Size

Catalog Number	Shield Wire Data			Length Before Compression Inches (mm)	Die Size	Minimum Press Tons	Net Weight lb (kg)
	Outside Diameter Inches	EHS Steel	Alumoweld				
301022SW	0.306-0.313	5⁄16	7 # 10, 3 # 7	6.1 (150)	12SH	60	.18 (.08)
301225SW	0.343-0.375	3⁄8	7 # 9, 3 # 6	6.4 (160)	12SH	60	.27 (.12)
301227SW	0.385-0.392	—	7 # 8, 3 # 5	6.4 (160)	12SH	60	.38 (.17)
301430SW	0.417-0.438	7⁄16	7 # 7	6.9 (170)	14SH	60	.40 (.18)
301635SW	0.486-0.500	½	7 # 6	7.4 (190)	16SH	60	.57 (.26)

Tee-Taps Compression Cable to Pad — Open Run AAC, AAAC, ACAR and ACSR Conductors

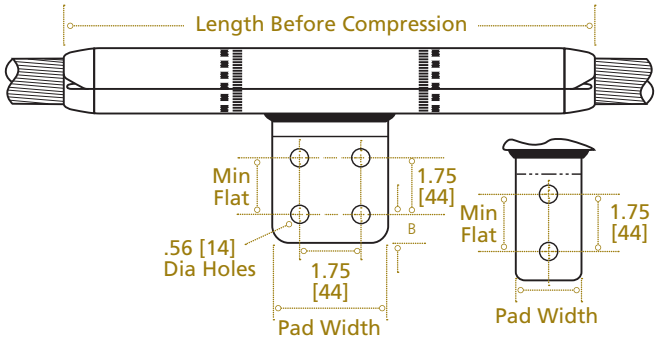
ALUMINUM

ORT21

Pad holes have NEMA spacing.

Material: Body – *aluminum alloy*
Pad – *cast aluminum*

IDENTIFICATION:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code



Product Data and Wire Size

Fargo Catalog Number	Conductor Range[1]			Pad Details		Length Before Compression Inches (mm)	Die Size[2]	Minimum Press Tons	Net Weight lb (kg)
	Outside Diameter Inches (mm)	AAC Size Kcmil	ACSR Size Kcmil (Str)	Bolt Holes	Width Inches (mm)				
ORT2107	0.595 - 0.679 (15.1 - 17.2)	300, 336.4, 350	266.8 (18/1) (6/7) (26/7)	2	2.0 (51)	11.3 (287)	07CD	12	0.84 (0.37)
ORT2108	0.680 - 0.765 (17.3 - 19.4)	350, 397.5, 400	336.4 (18/1) (26/7) (30/7), 397.5 (18/1)	2	2.0 (51)	12.7 (323)	08CD	12	1.1 (0.48)
ORT2109 ORT2109C	0.766 - 0.855 (19.5 - 21.7)	450, 477, 500, 550	397.5 (24/7) (26/7) (30/7), 477 (18/1) (24/7)	2 4	2.0 (51) 3.0 (76)	13.4 (340) 14.4 (366)	09CD	12	1.4 (0.61) 1.5 (0.65)
ORT2110 ORT2110C	0.856 - 0.950 (21.7 - 24.1)	556.5, 600, 636, 650	477 (26/7) (30/7), 556.5 (18/1) (24/7) (26/7), 636 (18/1) (36/1)	2 4	2.0 (51) 3.0 (76)	14.3 (363) 15.3 (389)	10CD 24AH	60	1.7 (0.74) 1.8 (0.78)
ORT2111	0.950 - 1.045 (24.2 - 26.5)	700, 715.5, 750	556.5 (30/7), 605 (24/7) (26/7) (30/19), 636 (18/1) – (30/19), 666 (24/7) (26/7), 715.5 (24/7)	4	3.0 (76)	16.3 (414)	11CD	60	2.5 (1.09)
ORT2112 ORT2112D	1.026 - 1.131 (26.1 - 28.7)	795, 800, 874.5, 900, 954	715.5 (24/7) (26/7) (30/19), 795 (24/7) (26/7) (45/7) (54/7), 795 (36/1), 900 (45/7)	4	3.0 (76) 4.0 (102)	17.3 (439) 18.3 (465)	12CD	60	3.1 (1.35) 3.3 (1.50)
ORT2113 ORT2113D	1.140 - 1.235 (29.0 - 31.4)	1000, 1033.5,	795 (30/19)	4	3.0 (76) 4.0 (102)	18.5 (470) 19.5 (495)	13CD 30AH	60	3.6 (1.57) 3.8 (1.66)
		1100, 1113	900 (54/7), 954 (45/7) (54/7), 1033.5 (36/1) (45/7)	4			13CD		
ORT2114 ORT2114D	1.236 - 1.330 (31.5 - 33.8)	1192.5, 1200, 1250 1272, 1300	954 (30/19), 1033.5 (54/7), 1113 (45/7) (54/19), 1192.5 (45/7)	4	3.0 (76) 4.0 (102)	19.8 (503) 20.8 (528)	14CD 34AH	60	4.6 (2.00) 4.8 (2.09)
ORT2115 ORT2115D	1.331 - 1.425 (33.9 - 36.2)	1351.5, 1400, 1431, 1500, 1510.5	1192.5 (54/19), 1272 (45/7) (54/19), 1351.5 (45/7) (54/19)	4	3.0 (76) 4.0 (102)	20.7 (526) 21.7 (551)	15CD 36AH	60	5.5 (2.40) 5.7 (2.48)
ORT2116 ORT2116D	1.426 - 1.520 (36.3 - 38.6)	1590, 1600, 1700	1431 (45/7) (54/19), 1510.5 (45/7) (54/19), 1590 (45/7)	4	3.0 (76) 4.0 (102)	21.6 (549) 22.6 (574)	16CD 38AH	60	6.1 (2.66) 6.3 (2.74)
ORT2117	1.521 - 1.615 (38.7 - 41.0)	1750, 1800, 1900	1590 (54/19) 1780 (84/19), 1869 (68/7)	4	4.0 (102)	23.5 (597)	17CD	60	7.8 (3.40)
ORT2119	1.630 - 1.805 (41.4 - 45.8)	2000, 2250, 2300	2034.5 (72/7), 2057 (76/19), 2167 (72/7)	4	4.0 (102)	25.4 (645)	19CD 44AH	100	10.2 (4.43)
		—	2156 (84/19), 2312 (76/19)	4			19CD		

NOTE: Install with Fargo type UJC or, for lowest resistance connection, type HTJC inhibitor compound. Tees are suitable for EHV applications on conductors over 1.0 in (25.4 mm) O. D.

(1) These tee taps also approved application on AAAC and ACAR conductors within the diameter ranges listed.

(2) Hex dies not available for some sleeve & conductor combinations. If no AH die listed for conductor, use only the CD die shown.

Tee-Taps Compression Cable to Pad — Open Run ACSS Conductors

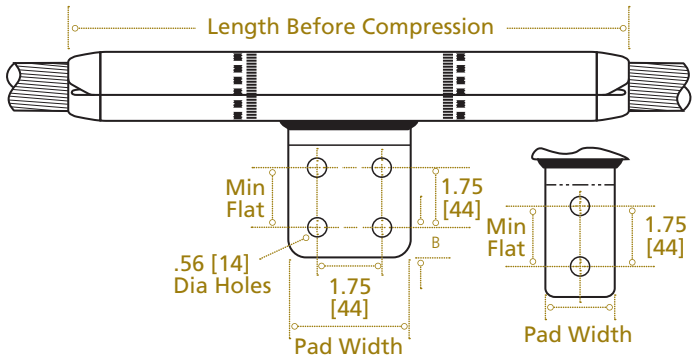
ALUMINUM

ORT21SSAC

Tee-taps listed below are rated for use on ACSS conductors when installed with Fargo® type HTJC, high-temperature joint compound. Tap pad holes have NEMA spacing.

Material: Body – *aluminum alloy*
Pad – *cast aluminum*

IDENTIFICATION:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code



Product Data and Conductor Size

Fargo Catalog Number	Conductor Range		Pad Details		Length Before Compression Inches (mm)	Die Size[1]	Min Press Tons	Net Weight lb (kg)
	Outside Diameter Inches (mm)	ACSS Size Kcmil (Str)	Bolt Holes	Width Inches (mm)				
ORT2107SSAC ORT2107CSSAC	0.595-0.679 (15.1 - 17.2)	266.8 (18/1) (6/7) (26/7)	2 4	2.0 (51) 3.0 (76)	12.7 (323) 13.7 (348)	07CD	12	0.90 (0.41) 0.97 (0.44)
ORT2108SSAC ORT2108CSSAC	0.680-0.765 (17.3 - 19.4)	336.4 (18/1) (26/7) (30/7), 397.5 (18/1)	2 4	2.0 (51) 3.0 (76)	13.5 (343) 14.5 (368)	08CD 76AH	12	1.1 (0.50) 1.2 (0.60)
ORT2109SSAC ORT2109CSSAC	0.766-0.855 (19.5 - 21.7)	397.5 (24/7) (26/7) (30/7), 477 (18/1) (24/7)	2 4	2.0 (51) 3.0 (76)	15.6 (396) 16.6 (422)	09CD	12	1.5 (0.68) 1.6 (0.73)
ORT2110SSAC ORT2110CSSAC	0.856-0.950 (21.7 - 24.1)	477 (26/7) (30/7), 556.5 (18/1) (24/7) (26/7), 636 (18/1) (36/1)	2 4	2.0 (51) 3.0 (76)	16.3 (414) 17.3 (439)	10CD 24AH	60	1.9 (0.86) 2.0 (0.91)
ORT2111SSAC	0.950-1.045 (24.2 - 26.5)	556.5 (30/7), 605 (24/7) (26/7) (30/19), 636 (18/1) (24/7) (26/7) (30/19), 666 (24/7) (26/7), 715.5 (24/7)	4	3.0 (76)	18.1 (459)	11CD	60	2.6 (1.18)
ORT2112SSAC ORT2112DSSAC	1.026-1.131 (26.1 - 28.7)	715.5 (24/7) (26/7) (30/19), 795 (24/7) (26/7) (45/7) (54/7), 900 (45/7)	4	3.0 (76) 4.0 (102)	19.5 (495) 20.5 (521)	12CD	60	3.3 (1.50) 3.5 (1.59)
ORT2113SSAC ORT2113DSSAC	1.140-1.235 (29.0 - 31.4)	795 (30/19) 795 (30/19), 900 (54/7), 954 (45/7) (54/7), 1033.5 (36/1) (45/7)	4	3.0 (76) 4.0 (102)	21.3 (541) 22.3 (566)	13CD 30AH 13CD	60	3.9 (1.77) 4.1 (1.86)
ORT2114SSAC ORT2114DSSAC	1.236-1.330 (31.5 - 33.8)	954 (30/19), 1033.5 (54/7), 1113 (45/7) (54/19), 1192.5 (45/7)	4	3.0 (76) 4.0 (102)	22.2 (564) 23.3 (589)	14CD 34AH	60	5.1 (2.31) 5.3 (2.40)
ORT2115SSAC ORT2115DSSAC	1.331-1.425 (33.9 - 36.2)	1192.5 (54/19), 1272 (45/7) (54/19), 1351.5 (45/7) (54/19)	4	3.0 (76) 4.0 (102)	24.0 (610) 25.0 (635)	15CD 36AH	60	5.9 (2.67) 6.1 (2.77)
ORT2116SSAC ORT2116DSSAC	1.426-1.520 (36.3 - 38.6)	1431 (45/7) (54/19), 1510.5 (45/7) (54/19), 1590 (45/7)	4	3.0 (76) 4.0 (102)	25.0 (635) 26.0 (660)	16CD 38AH	60	8.1 (3.67) 8.3 (3.76)
ORT2117SSAC	1.521-1.615 (38.7 - 41.0)	1590 (54/19), 1780 (84/19), 1869 (68/7)	4	4.0 (102)	26.0 (660)	17CD	60	8.5 (3.86)
ORT2119SSAC	1.630-1.805 (41.4 - 45.8)	2034.5 (72/7), 2057 (76/19), 2167 (72/7) 2156 (84/19), 2312 (76/19)	4	4.0 (102)	28.8 (732)	19CD 44AH 19CD	100	11.3 (5.13)

NOTE: Install with Fargo type HTJC inhibitor compound. Tees are suitable for EHV applications on conductors over 1.0 in (25.4 mm) O.D.

(1) Hex dies not available for some sleeve and conductor combinations. If no AH die listed for conductor, use only the CD die shown.

Tee Connectors

Tee-Taps Compression Cable to Pad — Open Run ACSS/TW Conductors

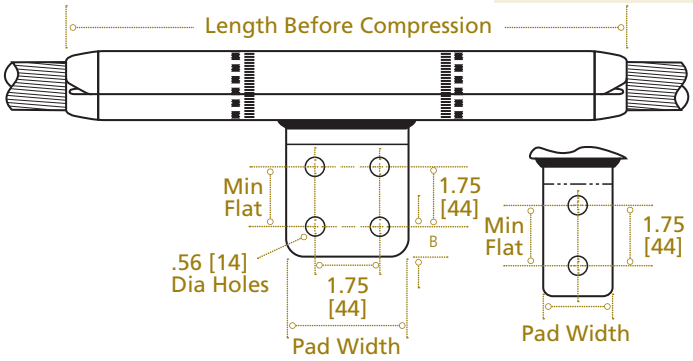
ALUMINUM

ORT21STW

Tee taps listed below are rated for use on ACSS/TW conductors when installed with Fargo® type HTJC, high-temperature joint compound. Tap pad holes have NEMA spacing.

Material: Body – *aluminum alloy*
Pad – *cast aluminum*

IDENTIFICATION:
Conductor Type & Diameter Range
Die Size, Minimum Press Size
Part Number, Date Code



Product Data and Conductor Size

Fargo Catalog Number	ACSS/TW Conductor Range		Pad Details		Length Before Compression Inches (mm)	Die Size[1]	Min Press Size Tons	Net Weight lb (kg)
	Outside Diameter Inches (mm)	Kcmil Size (Type)	Bolt Holes	Width Inches (mm)				
ORT2107STW ORT2107CSTW	0.547-0.611 (13.9 - 15.5)	266.8 (T16)	2 4	2.0 (51) 3.0 (76)	12.7 (323) 13.7 (348)	07CD	12	0.90 (0.41) 0.97 (0.44)
ORT2108STW ORT2108CSTW	0.630-0.695 (16.0 - 17.7)	336.4 (T16 & T23)	2 4	2.0 (51) 3.0 (76)	13.5 (343) 14.5 (368)	08CD 76AH	12	1.1 (0.50) 1.2 (0.60)
ORT2109STW ORT2109CSTW	0.702-0.776 (17.8 - 19.7)	397.5 (T13 & T16), 477 (T13)	2 4	2.0 (51) 3.0 (76)	15.6 (398) 16.6 (422)	09CD	12	1.5 (0.68) 1.6 (0.73)
ORT2110STW ORT2110CSTW	0.789-0.858 (20.0 - 21.8)	477 (T16 & T23), 556.5 (T13 & T16), 565.3 (T16), 571.7 (T13)	2 4	2.0 (51) 3.0 (76)	16.3 (414) 17.3 (439)	10CD 24AH	60	1.9 (0.86) 2.0 (0.91)
ORT2111STW	0.880-0.930 (22.4 - 23.6)	636 (T13 & T16)	4	3.0 (76)	18.1 (459)	11CD	60	2.6 (1.18)
ORT2112STW ORT2112DSTW	0.960-1.010 (24.4 - 25.7)	762.8 (T13 & T16), 795 (T7, T13 & T16)	4	3.0 (76) 4.0 (102)	19.5 (495) 20.5 (521)	12CD	60	3.3 (1.50) 3.5 (1.59)
ORT2113STW ORT2113DSTW	1.046-1.108 (26.6 - 28.1)	795 (T23)	4	3.0 (76) 4.0 (102)	21.3 (541) 22.3 (566)	13CD 30AH	60	3.9 (1.77) 4.1 (1.86)
		795 (T23), 900 (T13), 954 (T7 & T13), 959.6 (T16), 966.2 (T13), 1033.5 (T7)				13CD		
ORT2114STW ORT2114DSTW	1.125-1.196 (28.6 - 30.4)	1033.5 (T13), 1113 (T7 & T13), 1158 (T7), 1158.4 (T13), 1192.5 (T7)	4	3.0 (76) 4.0 (102)	22.2 (564) 23.3 (589)	14CD 34AH	60	5.1 (2.31) 5.3 (2.40)
ORT2115STW ORT2115DSTW	1.212-1.300 (30.8 - 33.0)	1192.5 (T13), 1233.3 (T13), 1272 (T7 & T13), 1351.5 (T7 & T13), 1431 (T7)	4	3.0 (76) 4.0 (102)	24.0 (610) 25.0 (635)	15CD 36AH	60	5.9 (2.67) 6.1 (2.77)
ORT2116STW ORT2116DSTW	1.290-1.382 (32.8 - 35.1)	1431 (T7 & T13), 1433.6 (T13) 1533.3 (T13), 1590 (T7)	4	3.0 (76) 4.0 (102)	25.0 (635) 26.0 (660)	16CD 38AH	60	8.1 (3.67) 8.3 (3.76)
ORT2117STW	1.385-1.504 (35.2 - 37.0)	1590 (T13), 1657.4 (T7), 1949.6 (T7)	4	4.0 (102)	26.0 (660)	17CD	60	8.5 (3.88)
ORT2119STW	1.504-1.608 (38.2 - 40.8)	1926.9 (T13), 1949.6 (T7)	4	4.0 (102)	28.8 (732)	19CD 44AH	100	11.3 (5.13)
		2156 (T8)				19CD		

NOTE: Install with Fargo type HTJC inhibitor compound. Tees are suitable for EHV applications on conductors over 1.0 in (25.4 mm) O.D.

(1) Hex dies not available for some sleeve and conductor combinations. If no AH die listed for conductor, use only the CD die shown.

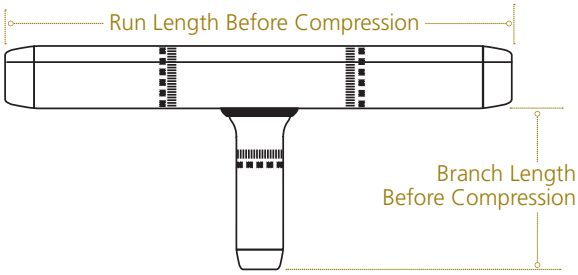
Tee-Taps Compression Cable to Cable — Open Run AAC, Alloy, ACAR and ACSR Conductors

ALUMINUM

ORT22

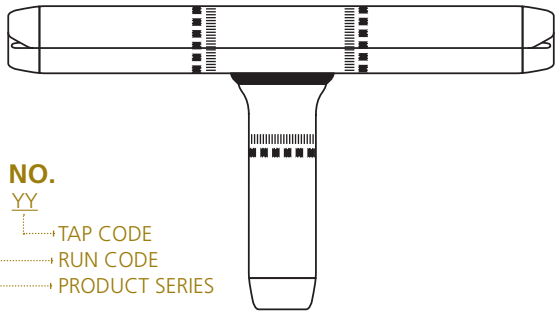
Tap barrel is prefilled with inhibitor.

Material: Body – *aluminum alloy*
Tap – *extruded aluminum alloy tube*



IDENTIFICATION:
RUN
- Conductor Type & Diameter Range
- Die Size, Minimum Press Size
- Part Number, Date Code

TAP
- Conductor Diameter Range
- Die Size, Minimum Press Size



CATALOG NO.
ORT 22 XX YY
- YY: TAP CODE
- XX: RUN CODE
- 22: PRODUCT SERIES

Product Data and Conductor Size

Conductor Range[1]			Run or Tap Code	Length Before		Die Size	Minimum Press Size Tons	Net Weight lb (kg)
Outside Diameter Inches (mm)	AAC Size Kcmil	ACSR Size Kcmil (Str)		Run Inches (mm)	Tap Inches (mm)			
0.595 - 0.679 (15.1 - 17.2)	300, 336.4, 350	266.8 (18/1) (6/7) (26/7)	07	10.7 (272)	3.6 (91)	07CD	12	0.51 (0.23)
0.680 - 0.765 (17.3 - 19.4)	350, 397.5, 400	300 (26/7), 336.4 (18/1) (26/7) (30/7), 395.5 (18/1)	08	12.3 (311)	4.1 (105)	08CD 76AH	12	0.76 (0.34)
0.766 - 0.855 (19.5 - 21.7)	450, 477, 500, 550	397.5 (24/7) (26/7) (30/7), 477 (18/1) (24/7)	09	13.8 (350)	4.6 (118)	09CD	12	1.10 (0.49)
0.856 - 0.950 (21.7 - 24.1)	556.5, 600, 636, 650	477 (26/7) (30/7), 556.5 (18/1) (24/7) (26/7) 636 (18/1) (36/1)	10	14.3 (363)	5.2 (131)	10CD 24AH	60	1.40 (0.63)
0.950 - 1.045 (24.2 - 26.5)	700, 715, 750	556.5 (30/7), 605 (24/7) (26/7) (30/19) 636 (24/7) (26/7) (30/19) 666 (24/7) (26/7) 715.5 (24/7)	11	15.7 (400)	5.7 (144)	11CD	60	1.90 (0.86)
1.026 - 1.131 (26.1 - 28.7)	795, 800, 874.5, 900, 954	715.5 (26/7) (30/19), 795 (24/7) (26/7) (45/7) 795 (54/7) 795 (36/1) 900 (45/7)	12	17.2 (436)	6.2 (157)	12CD	60	2.40 (1.09)
1.140 - 1.235 (29.0 - 31.4)	1000, 1033.5	795.5 (30/19)	13	18.6 (473)	6.7 (170)	13CD 30AH	60	3.00 (1.36)
	1100, 1113	795.5 (30/19), 900 (54/7), 954 (45/7) (54/7) 1033.5 (36/1) (45/7)				13CD		
1.236 - 1.330 (31.5 - 33.8)	1192.5, 1200, 1250, 1272, 1300	954 (30/19), 1113 (45/7) (54/19), 1192.5 (45/7), 1272 (36/1)	14	20.1 (509)	7.2 (183)	14CD 34AH	60	3.80 (1.73)

Product Data and Conductor Size (*continued*)

Conductor Range[1]			Run or Tap Code	Length Before		Die Size	Minimum Press Size Tons	Net Weight lb (kg)
Outside Diameter Inches (mm)	AAC Size Kcmil	ACSR Size Kcmil (Str)		Run Inches (mm)	Tap Inches (mm)			
1.331 - 1.425 (33.9 - 36.2)	1351.5, 1400, 1431, 1500, 1510.5	1192.5 (54/19), 1272 (45/7) (54/19), 1351.5 (45/7) (54/19)	15	21.5 (546)	7.7 (197)	15CD 36AH	60	4.70 (2.14)
1.426 - 1.520	1590, 1600, 1700	1431 (45/7) (54/19), 1510.5 (45/7) (54/19), 1590 (45/7)	16	21.3 (541)	8.2 (210)	16CD 38AH	60	5.30 (2.41)
1.521 - 1.615	1750, 1800, 1900	1590 (54/19), 1780	17	22.6 (575)	8.8 (223)	17CD 40AH	60	6.30 (2.86)
1.630 - 1.805	2000, 2250, 2300	2034.5 (72/7), 2057 (76/19) 2167 (72/7)	19	25.3 (643)	9.8 (249)	19CD 44AH	100	8.90 (4.04)
	—	2156 (84/19), 2312 (76/19)				19CD		

NOTE: Standard Hex dies not available for some sleeve and conductor combinations. If no AH die listed for conductor, use only the CD die shown. Install with Fargo® type UJC or, for lowest resistance connection, type HTJC inhibitor compound. Tees are suitable for EHV applications on conductors larger than 1.0 in O.D. Example: ORT221211 would be the catalog number for a ACSR 795 (26/7) Run with an ACSR 636 (24/7) Tap.

(1) These tee taps also approved application on AAAC and ACAR conductors within the diameter ranges listed.

Joint Compound/Inhibitor

expertise

Joint Compound/Inhibitor

Distribution/ Transmission/Substation Electrical Joint Compound

HTJC

Anderson®/Fargo® Versa-Seal® High-Temperature Joint Compound (HTJC) is a synthetic-based, gritted, high-temperature compound developed for use on two-piece compression fittings on ACSS conductors rated 250° C.

HTJC employs conductive grit and thermally conductive filler to reduce connection resistance and allows connectors operate at cooler temperatures.

This electrically and thermally conductive compound is also ideal for use on standard aluminum conductor (AAC and ACSR) fittings including Fargo® Uni-Grip® deadends, splices and terminals.

HTJC fills internal voids in compression and bolted joints, sealing out moisture. HTJC is also an excellent choice for pad-to-pad applications as the grit is very fine and conductive.

See Application Guide on next page for more information.

See joint compound requirements by conventional compression fitting type in table below.



Fargo Hi-Temperature Joint Compound (HTJC) Amount Required (Pounds Per Fitting)

Catalog Series	Aluminum (AH) Die Size														
	Fitting Type	74	75	76	20	24	27	30	34	36	38	40	42	44	48
10	FT Splice Body ACSR/ACSS/STW	0.04	0.06	0.10	0.20	0.32	0.44	0.60	0.94	0.98	1.10	1.10	1.40	1.52	1.62
12 /15	Sgl/Dbl DE Body ACSR/ACSS/STW	0.03	0.05	0.08	0.15	0.24	0.34	0.50	0.56	0.62	0.82	0.90	1.10	1.20	1.32
20	FT Splice Body AAC	0.04	0.06	0.08	0.09	0.14	0.20	0.33	0.42	0.54	0.60	0.72	0.85	1.20	1.32
21 / 24	Sgl/Dbl DE Body AAC	0.03	0.04	0.05	0.06	0.07	0.11	0.16	0.22	0.26	0.28	0.38	0.47	0.56	0.70
30 / 33	15/10 Degree Terminals	0.03	0.03	0.03	0.04	0.06	0.07	0.10	0.14	0.16	0.18	0.22	0.25	0.30	0.34
40	Loop Splice AAC/ACSR/ACSS	0.04	0.05	0.06	0.08	0.10	0.13	0.20	0.26	0.30	0.35	0.40	0.54	0.68	0.79

NOTE: Fargo synthetic based, HTJC is required with ACSS conductor fittings. HTJC compound is also recommended for lowest resistance connections on standard aluminum conductor fittings.

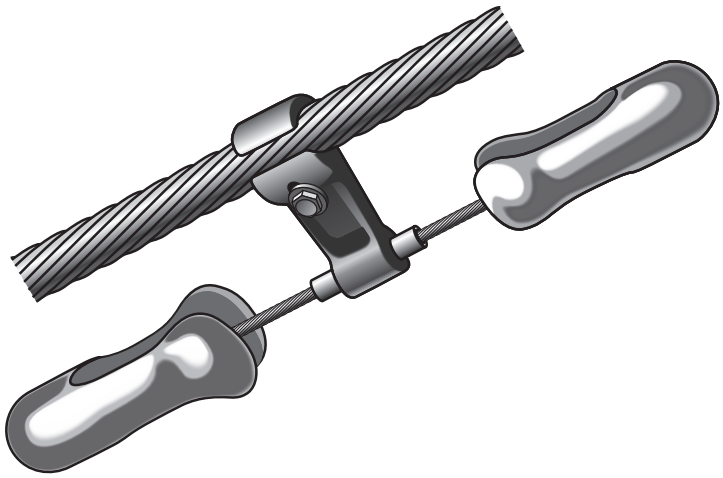
Joint Compound/Inhibitor

APPLICATION GUIDE

Catalog Number	Trade Name	Desc Size	Service Temp	To Be Used On			Base Oil		Grit Type			Color
				Compression	Groove/ Bolted	Pad	Synth/ Veg	Petrol	Fine Conduct	Non Conduct	Non Gritted	
VS8HTJC	ANDERSON™	8 oz Plastic Bottle	-40°F to +480°F (-40°C to 250°C)	●	●	●	●		●			GRAY
HTJC16	FARGO®	1 lb Caulk Tube		●	●	●	●		●			GRAY
UJC8	FARGO	8 oz Plastic Bottle		●				●		●		TAN
UJC16	FARGO	1 lb Caulk Tube		●				●		●		TAN
GF138	FARGOLENE®	8 oz Plastic Bottle			●	●	●				●	GREEN
GF131	FARGOLENE	1 lb Can			●	●	●				●	GREEN
GF178	FARGOLENE	8 oz Plastic Bottle			●	●	●				●	GRAY
GF171	FARGOLENE	1 lb Can			●	●	●				●	GRAY
GF198	FARGOLENE	8 oz Plastic Bottle		●	●		●			●		GRAY
GF191	FARGOLENE	1 lb Can		●	●		●			●		GRAY
M19203	CHANCE® ZLN-100	8 oz Plastic Bottle		●	●					●		GRAY/ BROWN
M19204	CHANCE ZLN-100	4 oz Plastic Bottle		●	●			●		●		GRAY/ BROWN
M19205	CHANCE ZLN-200	8 oz Plastic Bottle	-40°F to +300°F (-40°C to 149°C)	●	●		●			●		GRAY/ BROWN
M19206	CHANCE ZLN-200	4 oz Plastic Bottle		●	●		●			●		GRAY/ BROWN
VS8B	ANDERSON VERSA-SEAL®	8 oz Plastic Bottle			●	●	●				●	YELLOW
VSG8B	ANDERSON VERSA-SEAL	8 oz Plastic Bottle		●			●			●		BLUE
ING4	ANDERSON INHIBOX	4 oz Plastic Bottle				●	●				●	GRAY
ING8	ANDERSON INHIBOX	8 oz Plastic Bottle				●	●				●	GRAY
INGQC	ANDERSON INHIBOX	1 qt Can				●	●				●	GRAY
INGGC	ANDERSON INHIBOX	1 gal Can				●	●				●	GRAY
I4	ANDERSON INHIBOX 220	4 oz Plastic Bottle		●	●		●			●		GRAY
I8	ANDERSON INHIBOX 220	8 oz Plastic Bottle		●	●		●			●		GRAY
IGC	ANDERSON INHIBOX 220	1 gal Can		●	●		●			●		GRAY

NOTE: All compounds have a greater than 500° F (260° C) withstand temperature.

Conductor Protection



results

Conductor Protection Index

Dampers

607..... Vibration Damper 4R Stockbridge.....G-1

Armor Rods

AP8..... Aluminum Armor Rods.....G-6
APGS..... Galvanized Steel Armor Rods G-8
APAS..... Aluminum-Clad Steel Armor Rods.....G-9

Line Guards

PL5..... Aluminum Line Guards.....G-10

Protector Rods

PR5 ..... Aluminum Protector Rods.....G-12

Cross Reference

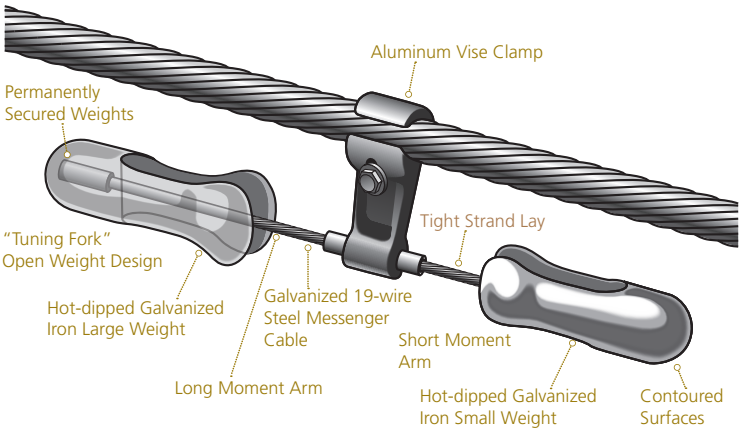
Armor Rods, Line Guards & Protector Rods.....G-13

Vibration Damper 4R Stockbridge

Fargo® 4-R vibration dampers effectively prevent fatigue damage to conductor and static wires caused by wind-induced aeolian vibration.

The 4-R concept improves on the design of the basic Stockbridge damper, significantly increasing the efficiency of converting wind-induced energy into heat. The improved design employs unequal weights on messengers of unequal length. This configuration doubles the number of resonant peaks from two generated by the old-style Stockbridge damper to four in the improved Fargo 4-R. These additional resonant peaks create an envelope of dynamic response that protects the conductor through the entire range of dangerous vibration frequencies.

To assure maximum performance, Fargo utilizes a sophisticated computer simulation whose development has been verified by decades of testing and field measurements. This computer model identifies the optimum damper placement on the span.



Fargo 4-R Vibration Damper System Provides You...

Maximum Protection From Wind-Induced Conductor Bending Strain

The four-resonant peaks include two separate cantilever response modes and two separate rotational response modes of the weight and messenger cable. These peaks also provide maximum energy dissipation to reduce strain over the entire spectrum of dangerous wind velocities.

- Wide frequency response range optimizes protection of your system
- Large 19 strand wire and tight strand lay dissipate energy more efficiently
- Press fit permanent weight attachment technique assures long-term performance
- Contoured surfaces prevent corona discharge

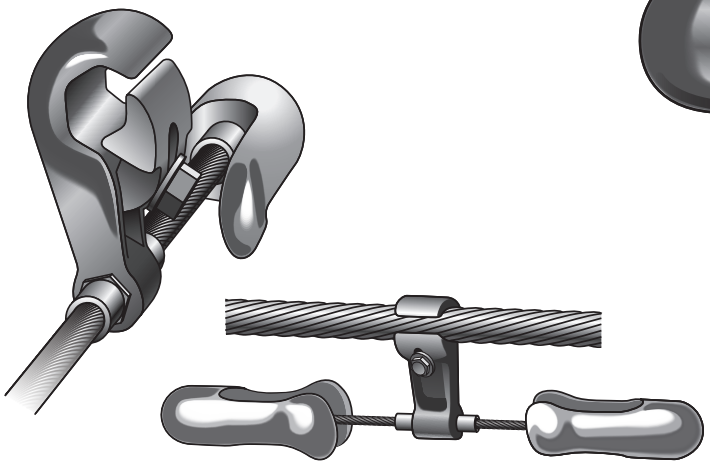
Comprehensive Application Program for Optimum Performance

Provides precise selection and placement through our proprietary computer simulation

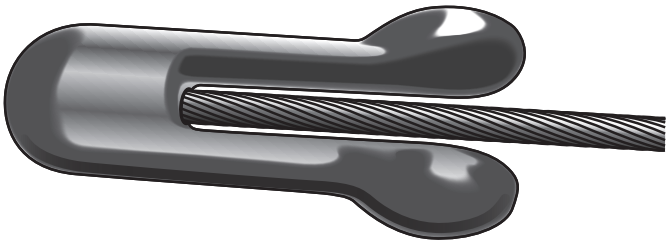
- Computer program based on a mathematical model verified by decades of laboratory testing and field vibration measurements
- Precisely identifies the vibration performance characteristics of transmission lines
- Determines dangerous tension levels for existing or proposed spans
- Identifies the frequency range, tension level and span lengths requiring damper protection
- Identifies proper damper placement for required vibration energy dissipation
- Results of the above analysis for conductors and shield wires are available online at: http://hpsapps.com/damper2 Fargo 4-R Damper Application Software
- See the Reference Materials section of this catalog for a detailed program description.

Vibration Damper 4R Stockbridge

Messenger Cable: Materials and stranding are selected to obtain the best energy absorption characteristics. The galvanized steel messenger is manufactured to rigid engineering standards.

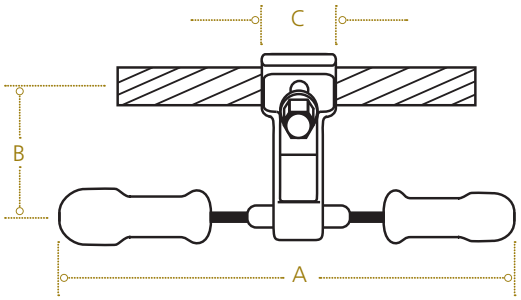


Fargo® 4-R vibration dampers effectively prevent fatigue damage to conductor and static wires caused by wind-induced aeolian vibration.



Weights: Uniquely shaped so that the resonant peaks are effectively distributed over the desired frequency range. All weights are given a corrosion-resistant finish and have smooth surfaces and rounded edges to eliminate possible corona discharge.

Clamp: The bolted clamp permits easy installation on a wide range of conductor sizes. Aluminum clamping bolt ensures that damper clamp remains tight as conductor temperature changes with current load cycling.



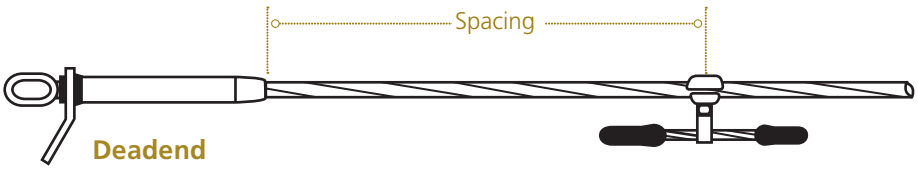
Product Data

Damper Catalog Number [1]	Bare Conductor/Cable Diameter Range [2] in. (mm)	Conductor/Cable Dia. Over Armor Rods Range [2] in. (mm)	Clamp Bolt Torque ft-lb	Dimensions - inches (mm)			Weight Each lb (kg)	Std Pkg Qty
				A	B	C		
607048	0.270 - 0.438 (6.86 - 11.1)	-	20	11.1 (282)	2.38 (60)	1.75 (44)	2.8 (1.3)	10
607051011	0.439 - 0.858 (11.2 - 21.9)	0.524 - 0.865 (13.3 - 22.0)	25	16.1 (409)	2.69 (68)	1.75 (44)	4.8 (2.2)	6
6070512	-	0.710 - 1.170 (18.0 - 29.7)	25	16.1 (409)	2.91 (74)	2.26 (57)	5.0 (2.3)	6
6071012	0.859 - 1.130 (21.8 - 28.7)	-	25	20.0 (508)	2.91 (74)	2.26 (57)	9.0 (4.1)	6
6071018	-	1.170 - 1.755 (29.7 - 44.6)	40	20.0 (508)	3.20 (81)	2.26 (57)	9.4 (4.3)	6
6071513	1.131 - 1.425 (28.7 - 36.2)	-	25	21.9 (556)	3.78 (96)	2.82 (72)	15.7 (7.1)	4
6071523	-	1.640 - 2.300 (41.7 - 58.4)	40	21.9 (556)	4.20 (107)	2.82 (72)	16.0 (7.3)	3
6072014	1.426 - 1.821 (36.2 - 46.3)	-	40	24.0 (610)	5.92 (150)	3.54 (90)	22.0 (10)	3
6072025	-	1.940 - 2.560 (49.3 - 65.0)	40	24.0 (610)	6.30 (160)	3.54 (90)	22.5 (10.2)	3

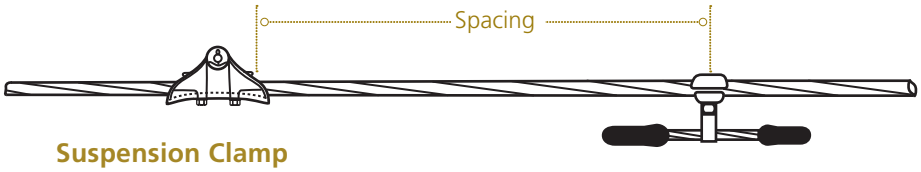
(1) To specify Torque Head/Break Away bolt option, add suffix "O" to catalog number.

(2) Recommended conductor/cable size range limits. Physical clamp range may be slightly larger.

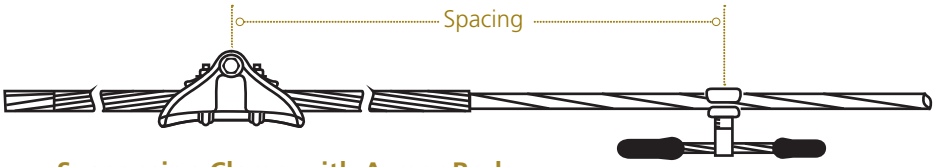
4-R Damper Installation Instructions



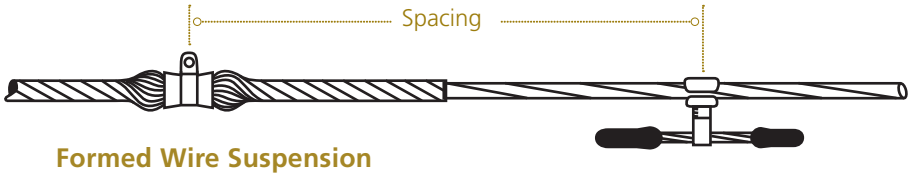
Deadend



Suspension Clamp



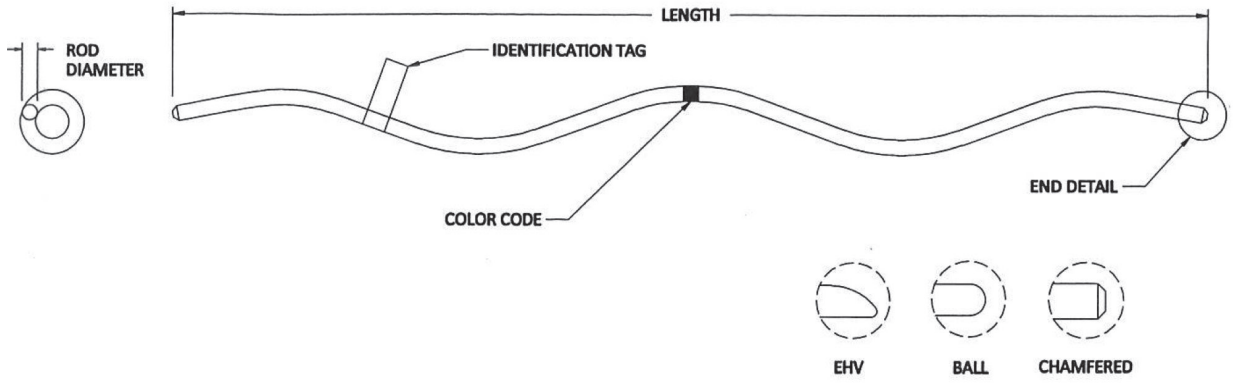
Suspension Clamp with Armor Rods



Formed Wire Suspension

NOTE: Dampers shall be located from the center of the damper clamp to either the dead end or the suspension support as shown above. The orientation of the damper weights along the conductor is optional. For convenience, orient the damper such that the clamp bolt head faces the installer. When only one damper is required per conductor per span, it can be installed at either span extremity when the support hardware is identical. When support hardware differs, place the damper at the suspension structure. When two dampers are required per conductor per span, the preferred placement is one at each span extremity.

Armor Rods & Line Guards





Industry Competitive

- Price, quality & lead time
- Look, feel & function
- ACSR/ACSS; ACSR/ACSS TW; AAC, AAAC; ACAR

Production

- EHV rated, made to order
- Inventory available for popular sizes
- Sample orders welcomed

Product Specs

- Aluminum Alloy
- Right Hand Lay
- Ball Ends ≥ 0.250”
- Chamfered Ends < 0.250”
- Add “E” Suffix for EHV Rod End
- Add “D” Prefix for Double Supported Length (For rod diameters < 0.25” only)

Armor Rods & Line Guards

Materials:

Rods – manufactured from either aluminum covered steel, aluminum alloy or galvanized steel

Color code and center mark – establishes alignment of rods during application and identifies conductor size

Identification tag – identifies catalog number and conductor details

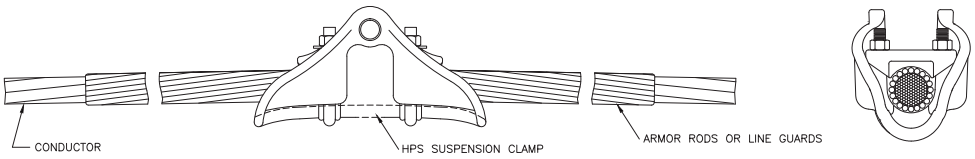
Industry Knowledge:

Armor Rods and Line Guards have overlapping purpose – to protect conductors from fatigue-damage by providing a stiffening support for suspended conductors. They also protect from abrasion-damage at attachment points by providing a buffer between the conductor and the clamping connector. They are both made up of sets of individual rods of the same diameter. When installed, the set of individual rods grip rigidly onto their respective conductors. Once each rod of the respective set has been installed, the set should evenly enclose the conductor along the length of the rods.

Physically, the line guard sets are shorter in length and the individual rods are smaller in diameter. The application for line guards is typically found on light transmission lines with shorter spans, smaller conductor sizes and lower voltages. Armor Rods are recommended for applications where the conductor is clamped or suspended with bolted type connectors.

Product Offerings:*

- Aluminum Armor Rods
- Aluminum Line Guards
- Aluminum Protector Rods
- Galvanized Steel Rods
- Alumo-Weld® Steel Rods



- **EHV @ 250° C for respective suspension clamp & conductor application***
- **Application O.D. = (Rod O.D. X 2) + Conductor O.D.**

General Recommendations

Armor Rods

1. Fargo® Armor Rods are intended to protect conductors from stress and damage which can be caused by a bend, compression, abrasion or arc over. They are also designed to repair conductors which have sustained < 50% outer strand damage.*
2. Armor Rods should be considered as minimum protection for clamp style supports or suspension hardware for spans > 300 feet.
3. Armor Rods are designed to provide an extra degree of protection to the conductor at support points, **not act as vibration dampers**. In areas where vibration is suspected or known to occur, the use of Fargo® 4-R Dampers is recommended.

Line Guards

1. Fargo® Line Guards are intended to provide an extra degree of protection for the conductor against abrasion and arc over. They are also designed to repair conductors which have sustained < 25% outer strand damage.*
2. Line Guards should be considered as minimum protection for hand-tied spans ≤ 300 feet in urban areas with no history of vibration.
3. Line Guards should be considered as a cost saving alternate to Armor Rods when applicable. Note: HPS Distribution Ties are recommended as an improvement over Line Guards and hand ties, providing a stronger and more uniform tie.

*The degree of protection required is dependent upon line design, tension, temperature, and wind conditions. Contact HPS Connectors Business Unit for specific recommendations.

Conductor Protection — *Armor Rods*

For use on stranded aluminum and aluminum composite conductors, including high-temperature conductor designs.(4)

Material: *aluminum alloy*



ALUMINUM
AP8

Product Data and Conductor Size

Catalog Number	Conductor Dia. Range In. (mm)		Nominal Conductor Size (AWG or KCMIL)		Applied Length (in.)	Rod Dia. (in.)	Rods Per Set	Sets Per Carton	Wt. Per Carton (lbs.)	Color Code
	Min.	Max.	ACSR/ACSS	AAC, AAAC						
AP8114 DAP8114	0.309 (7.8)	0.326 (8.3)	#2 (6/1)		44 56(D)	0.136	9	50	32 40	Red
AP8115 DAP8115	0.327 (8.3)	0.346 (8.8)		#1	46 58(D)	0.146	9	50	38 46	Blue
AP8116 DAP8116	0.347 (8.8)	0.366 (9.3)	#1 (6/1)		48 60(D)	0.146	9	50	40 49	Green
AP8117 DAP8117	0.367 (9.3)	0.389 (9.9)		1/0	50 62(D)	0.146	10	50	45 55	Black
AP8118 DAP8118	0.390 (9.9)	0.413 (10.5)	1/0 (6/1)		52 64(D)	0.167	9	50	55 67	Yellow
AP8119 DA08119	0.414 (10.5)	0.436 (11.1)		2/0	52 64(D)	0.146	10	50	48 58	Brown
AP8120 DAP8120	0.437 (11.1)	0.463 (11.8)	2/0 (6/1)		54 66(D)	0.167	10	50	64 76	Blue
AP8121 DAP8121	0.464 (11.8)	0.490 (12.4)		3/0	54 66(D)	0.167	10	50	64 76	Green
AP8122 DAP8122	0.491 (12.5)	0.521 (13.2)	3/0 (6/1)		56 68(D)	0.167	11	25	37 46	Orange
AP8123 DAP8123	0.522 (13.3)	0.551 (14.0)		4/0	58 70(D)	0.167	11	25	38 46	Black
AP8124 DAP8124	0.552 (14.0)	0.585 (14.9)	4/0 (6/1)	250	60 72(D)	0.182	11	25	46 55	Red
AP8125 DAP8125	0.586 (14.9)	0.606 (15.4)		266.8	62 74(D)	0.182	12	25	52 61	Black
AP8126 DAP8126	0.607 (15.4)	0.630 (16.0)	266.8 (18/1)		64 76(D)	0.182	12	25	54 63	Purple
AP8127 DAP8127	0.631 (16.0)	0.655 (16.6)	266.8 (26/7)		64 76(D)	0.182	12	25	54 63	Yellow
AP8128 DAP8128	0.656 (16.7)	0.679 (17.2)		336.4	66 78(D)	0.182	13	18	43 51	Brown
AP8129 DAP8129	0.680 (17.3)	0.703 (17.9)	336.4 (18/1)		68 80(D)	0.204	12	18	52 60	Blue
AP8130 DAP8130	0.704 (17.9)	0.740 (18.8)	336.4 (26/7)	397.5	72 84(D)	0.204	12	18	54 64	Green
AP8131	0.741 (18.8)	0.782 (19.9)	397.5 (18/1)		72	0.204	13	18	59	Orange
AP8132	0.783 (19.9)	0.814 (20.7)	397.5 (26/7)	477, 500	76	0.250	11	15	66	Purple
AP8133	0.815 (20.7)	0.845 (21.5)			76	0.250	11	15	66	Red
AP8134	0.846 (21.5)	0.907 (23.0)	477 (26/7)	556.5	78	0.250	12	15	74	Blue
AP8135	0.908 (23.1)	0.929 (23.6)	556.5 (26/7)	636	80	0.250	13	12	66	Green
AP8136	0.930 (23.6)	0.976 (24.8)	556.5 (30/7) 605 (26/7)	715.5	88	0.250	13	12	72	White

NOTES:

(1) Right-hand lay standard.

(2) For aluminum conductor types & sizes not listed above, select rod set based on dia. range to accomodate conductor.

(3) Applied O.D. of conductor with rods, for suspension clamp selection, equals conductor diameter plus two times rod dia.

(4) Maximum conductor temperature limits vary with suspension clamp designs. See catalog Reference Data secton for guidelines.

Conductor Protection — *Armor Rods*

For use on stranded aluminum and aluminum-composite conductors, including high-temperature conductor designs.(4)

For EHV applications, add suffix "E" to catalog numbers to Specify. Example AP8146E



ALUMINUM

AP8

Material: *aluminum alloy*

Product Data and Conductor Size

Catalog Number	Conductor Dia. Range In. (mm)		Nominal Conductor Size (AWG or KCMIL)		Applied Length (in.)	Rod Dia. (in.)	Rods Per Set	Sets Per Carton	Wt. Per Carton (lbs.)	Color Code
	Min.	Max.	ACSR/ACSS	AAC, AAAC						
AP8137	0.977 (24.8)	1.016 (25.8)	636 (24/7) (26/7) 666 (24/7) (26/7)	750	92	0.310	11	9	50	Yellow
AP8138	1.017 (25.8)	1.035 (26.3)	636.0 (30/19)	795	94	0.310	12	6	55	Brown
AP8139	1.036 (26.3)	1.064 (27.0)	715.5 (26/7) 795 (45/7)		96	0.310	12	6	56	Blue
AP8140	1.065 (27.1)	1.098 (27.9)	795 (24/7)	900	96	0.310	12	6	56	Green
AP8141	1.099 (27.9)	1.139 (28.9)	795 (26/7)	954	100	0.310	12	6	62	Orange
AP8142	1.140 (29.0)	1.161 (29.5)	954 (36/1)	1000	100	0.310	13	6	63	Purple
AP8143	1.162 (29.5)	1.208 (30.7)	954 (45/7) (54.7) 1033.5 (45/7)		100	0.310	13	6	69	Red
AP8144	1.209 (30.7)	1.269 (32.2)	1033.5 (54/7) 1113 (45/7)	1113	100	0.365	12	6	81	Black
AP8145	1.270 (32.3)	1.327 (33.7)	1113 (54/19) 1192.5 (45/7)	1272	100	0.365	12	6	81	White
AP8146	1.328 (33.7)	1.390 (35.3)	1192.5 (54/19) 1272 45/7 (54/19) 1351.5 (45/7)	1351.5 1431	100	0.365	13	3	45	Yellow
AP8147	1.391 (35.3)	1.440 (36.6)	1351.5 (54/19) 1434 (45/7)	1500	100	0.436	11	3	54	Brown
AP8163	1.441 (36.6)	1.508 (38.3)	1590 (45/7)	1590	100	0.436	12	3	58	Blue
AP8164	1.509 (38.3)	1.578 (40.1)	1590 (54/19)	1750	100	0.436	12	3	58	Green
AP8165	1.579 (40.1)	1.651 (41.9)	1780 (84/19)	2000	100	0.436	13	3	60	Orange
AP8166	1.652 (42.0)	1.728 (43.9)	2034.5 (72/7)		100	0.436	13	3	60	Purple
AP8167	1.729 (43.9)	1.809 (45.9)	2167 (72/7) 2156 (84/19)	2300	100	0.436	14	3	64	Red
AP8168	1.810 (46.0)	1.898 (48.2)	2515 (76/19)	2500	100	0.436	14	3	64	Black

NOTES:

(1) Right-hand lay standard.

(2) For aluminum conductor types & sizes not listed above, select rod set based on dia. range to accomodate conductor.

(3) Applied O.D. of conductor with rods, for suspension clamp selection, equals conductor diameter plus two times rod dia.

(4) Maximum conductor temperature limits vary with suspension clamp designs. See catalog Reference Data secton for guidelines.

Conductor Protection — *Armor Rods*

For use on galvanized, stranded-steel cables with lefthand lay. Typical application is on transmission line overhead shield wires.

STEEL

APGS

Material: *galvanized steel*

Product Data

Catalog Number	Cable Dia. Range In. (mm)		Nominal Cable Diameter (in.)	Applied Length (in.)	Rod Dia. (in.)	Rods Per Set	Sets Per Carton	Wt. Per Carton (lbs.)	Color Code
	Min.	Max.							
APGS0516	0.309 (7.8)	0.326 (8.3)	5/16	44	0.100	11	50	60	Black
APGS0038	0.347 (8.8)	0.373 (9.5)	3/8	48	0.100	12	50	70	Orange
APGS0716	0.414 (10.5)	0.436 (11.1)	7/16	52	0.119	12	20	52	Green
APGS0050	0.491 (12.5)	0.521 (13.2)	1/2	56	0.138	12	20	62	Blue

NOTES:

(1) Left-hand lay standard.

(2) Applied O.D. of conductor with rods, for suspension clamp selection, equals conductor diameter plus two times rod dia.

(3) Galvanized steel armor rods may be suitable for application on other cable types, Consult factory for specific information.

Conductor Protection — *Armor Rods*

For use on Alumoweld® (aluminum-clad, stranded-steel) cables with left-hand lay. Typical application is on transmission line overhead shield wires.

STEEL

APAS

Material: *aluminum-clad steel*

Product Data

Catalog Number	Cable Dia. Range In. (mm)		NOMINAL CABLE SIZE INCHES, AWG-STR M(UTS kLB)	Applied Length (in.)	Rod Dia. (in.)	Rods Per Set	Sets Per Carton	Wt. Per Carton (lbs.)	Color Code
	Min.	Max.							
APAS0710 DAPAS0710	0.296 (7.5)	0.314 (8.0)	5/16", 7#10, 3#7, 10M	46 58(D)	0.114	9	25	30 37	Black
APAS0079 DAPAS0079	0.334 (8.5)	0.352 (8.9)	7#9, 3#6, 12.5M	50 62(D)	0.114	10	25	35 44	Yellow
APAS0078 DAPAS0078	0.373 (9.5)	0.392 (10.0)	3/8", 7#8, 3#5, 16M	50 62(D)	0.128	10	25	44 54	Orange
APAS018M DAPAS018M	0.409 (10.4)	0.425 (10.8)	18M	54 66(D)	0.128	11	25	51 62	Black
APAS0077 DAPAS0077	0.426 (10.8)	0.450 (11.4)	7/16", 7#7, 20M	56 68(D)	0.128	12	25	58 70	Green
APAS0076 DAPAS0076	0.477 (12.1)	0.504 (12.8)	1/2", 7#6	56 68(D)	0.144	11	20	54 65	Blue
APAS0075 DAPAS0075	0.535 (13.6)	0.565 (14.4)	9/16", 7#5	60 72(D)	0.162	12	10	40 48	Yellow

NOTES:

(1) Left-hand lay standard.

(2) Applied O.D. of conductor with rods, for suspension clamp selection, equals conductor diameter plus two times rod dia.

(3) Alumoweld is a registered trademark of the Copperweld Co.

Conductor Protection — *Line Guards*

For use on stranded aluminum and aluminum composite conductors, including high-temperature conductor designs.(4)

ALUMINUM
PL5

Material: *aluminum alloy*

Product Data and Conductor Size

Catalog Number	Conductor Dia. Range In. (mm)		Nominal Conductor Size (AWG or KCMIL)		Applied Length (in.)	Rod Dia. (in.)	Rods Per Set	Sets Per Carton	Wt. Per Carton (lbs.)	Color Code
	Min.	Max.	ACSR/ACSS	AAC, AAAC						
PL5130 DPL5130	0.290 (7.4)	0.308 (7.8)		#2	21 33(D)	0.121	9	100	25 38	Purple
PL5131 DPL5131	0.309 (7.8)	0.326 (8.3)	#2 (6/1)	#2	21 33(D)	0.121	9	100	25 38	Red
PL5132 DPL5132	0.327 (8.3)	0.346 (8.8)		#1	21 33(D)	0.121	10	100	28 42	Blue
PL5133 DPL5133	0.347 (8.8)	0.366 (9.3)	#1 (6/1)		23 35(D)	0.121	10	100	30 44	Green
PL5134 DPL5134	0.367 (9.3)	0.389 (9.9)		1/0	23 35(D)	0.121	11	100	32 46	Black
PL5135 DPL5135	0.390 (9.9)	0.413 (10.5)	1/0 (6/1)	1/0	25 37(D)	0.121	10	100	35 50	Yellow
PL5136 DPL5136	0.414 (10.5)	0.436 (11.1)		2/0	25 37(D)	0.121	12	50	20 29	Brown
PL5137 DPL5137	0.437 (11.1)	0.463 (11.8)	2/0 (6/1)		27 39(D)	0.121	13	50	23 32	Blue
PL5138 DPL5138	0.464 (11.8)	0.490 (12.4)		3/0	27 39(D)	0.121	13	50	24 32	Green
PL5139 DPL5139	0.491 (12.5)	0.521 (13.2)	3/0 (6/1)	195.7	29 41(D)	0.121	14	50	26 36	Orange
PL5140 DPL5140	0.522 (13.3)	0.551 (14.0)		4/0	29 41(D)	0.121	14	50	26 36	Black
PL5141 DPL5141	0.552 (14.0)	0.585 (14.9)	4/0 (6/1)	250	31 43(D)	0.121	15	50	30 40	Red
PL5142 DPL5142	0.586 (14.9)	0.606 (15.4)		266.8	31 43(D)	0.146	14	50	40 54	Black
PL5143 DPL5143	0.607 (15.4)	0.630 (16.0)	266.8 (18/1)	300	33 45(D)	0.146	14	50	42 57	White
PL5144 DPL5144	0.631 (16.0)	0.655 (16.6)	266.8 (26/7)	312.8	33 45(D)	0.146	14	50	42 57	Yellow
PL5145 DPL5145	0.656 (16.7)	0.679 (17.2)		336.4	35 47(D)	0.146	15	50	48 62	Brown
PL5146 DPL5146	0.680 (17.3)	0.703 (17.9)	336.4 (18/1)	350	35 47(D)	0.146	15	50	48 62	Blue
PL5147 DPL5147	0.704 (17.9)	0.740 (18.8)	336.4 (26/7)	397.5	37 49(D)	0.146	16	50	54 70	Green
PL5148 DPL5148	0.741 (18.8)	0.782 (19.9)	397.5 (18/1) (26/7)	477	39 51(D)	0.146	17	50	60 77	Orange
PL5149 DPL5149	0.793 (20.1)	0.840 (21.3)	397.5 (30/7) 477 (18/1)	500	39 51(D)	0.146	18	50	64 82	Purple
PL5150 DPL5150	0.841 (21.4)	0.898 (22.8)	477 (26/7) (30/7)	556.5, 600	41 53(D)	0.146	19	25	41 53	Blue
PL5151 DPL5151	0.899 (22.8)	0.954 (24.2)	556.5 (26/7) (30/7) 636 (18/1)	636	43 55(D)	0.167	18	25	46 58	Green

NOTES:

(1) Right-hand lay standard.

(2) For aluminum conductor types & sizes not listed above, select rod set based on dia. range to accomodate conductor.

(3) Applied O.D. of conductor with rods, for suspension clamp selection, equals conductor diameter plus two times rod dia.

(4) Maximum conductor temperature limits vary with suspension clamp designs. See catalog Reference Data secton for guidelines.

Conductor Protection — *Line Guards*

Line Guards for conductors 1.0 inch diameter or larger are available for EHV application. Add suffix "E" to catalog number to specify. Example PL5155E

ALUMINUM
PL5

Product Data and Conductor Size (*continued*)

Catalog Number	Conductor Dia. Range In. (mm)		Nominal Conductor Size (AWG or KCMIL)		Applied Length (in.)	Rod Dia. (in.)	Rods Per Set	Sets Per Carton	Wt. Per Carton (lbs.)	Color Code
	Min.	Max.	ACSR/ACSS	AAC, AAAC						
PL5152 DPL5152	0.955 (24.3)	0.986 (25.0)	605 (26/7) 636 (24/7)	715.5	45 57(D)	0.182	17	25	54 68	White
PL5153 DPL5153	0.987 (25.1)	1.016 (25.8)	636 (26/7) 666 (24/7) (26/7)	750	45 57(D)	0.182	18	25	58 72	Yellow
PL5154 DPL5154	1.017 (25.8)	1.064 (27.0)	636 (30/19) 715 (26/7) 795 (45/7)	795	47 59(D)	0.182	18	25	60 74	Brown
PL5155 DPL5155	1.065 (27.1)	1.098 (27.9)	715.5 (30/19) 795 (54/7)	874.5, 900	49 61(D)	0.204	17	15	44 55	Green
PL5156 DPL5156	1.099 (27.9)	1.153 (29.3)	795 (26/7) (30/19)	954	49 61(D)	0.250	15	15	58 72	Orange
PL5157 DPL5157	1.154 (29.3)	1.208 (30.7)	954 (45/7) (54/7)	1033.5	51 63(D)	0.250	15	15	62 75	Purple
PL5158 DPL5158	1.209 (30.7)	1.268 (32.2)	954 (30/19) 1033.5 (45/7) (54/7) 1113 (45/7)	1113, 1192.5	53 65(D)	0.250	16	15	68 82	Black
PL5159 DPL5159	1.269 (32.2)	1.327 (33.7)	1113 (54/19) 1192.5 (45/7)	1272	53 65(D)	0.250	17	10	48 58	White
PL5160 DPL5160	1.328 (33.7)	1.390 (35.3)	1192.5 (54/19) 1272 (45/7) (54/19) 1351.5 (45/7)	1351.5, 1431	55 67(D)	0.250	16	10	50 60	Yellow
PL5161 DPL5161	1.391 (35.3)	1.440 (36.6)	1351.5 (54/19) 1431 (45/7)	1500	57 69(D)	0.310	15	5	33 40	Brown
PL5162 DPL5162	1.441 (36.6)	1.508 (38.3)	1431 (54/19) 1590 (45/7)	1590, 1700	59 71(D)	0.310	16	5	36 43	Blue
PL5163 DPL5163	1.509 (38.3)	1.578 (40.0)	1590 (54/19)	1750	61 73(D)	0.310	16	5	37 44	Green

NOTES:

(1) Right-hand lay standard.

(2) For aluminum conductor types & sizes not listed above, select rod set based on dia. range to accomodate conductor.

(3) Applied O.D. of conductor with rods, for suspension clamp selection, equals conductor diameter plus two times rod dia.

(4) Maximum conductor temperature limits vary with suspension clamp designs. See catalog Reference Data secton for guidelines.

Conductor Protection — *Protector Rods*

Primary application as a mechanical reinforcement layer for mounting dampers or other devices on ACSS conductors or OPGW cables where suspension support reinforcing rods are not available to mount damper or device.

For EHV applications, add suffix "E" to catalog numbers to Specify. Example PR5158E

ALUMINUM
PR5

Product Data and Conductor Size

Catalog Number	Conductor / OPGW Dia. Range In. (mm)		Nominal Conductor Size (AWG or KCMIL)		Applied Length (in.)	Rod Dia. (in.)	Rods Per Set	Sets Per Carton	Wt. Per Carton (lbs.)	Color Code
	Min.	Max.	ACSS	ACSS/TW						
PR5139	0.476 (12.1)	0.533 (13.5)			16	0.121	13	50	14	Blue
PR5141	0.534 (13.6)	0.585 (14.9)			16	0.121	14	50	14	Green
PR5142	0.586 (14.9)	0.618 (15.7)			16	0.146	13	50	21	Orange
PR5144	0.619 (15.7)	0.667 (16.9)	266.8 (26/7) (30/7)		16	0.146	14	50	21	Purple
PR5146	0.668 (17.0)	0.722 (18.3)	336.4 (26/7)	336.4 (17/7) T23	20	0.146	15	50	29	Red
PR5148	0.723 (18.4)	0.816 (20.7)	397.5 (26/7) (30/7)	477 (18/7) T13 477 (18/7) T16	20	0.146	16	50	29	Black
PR5150	0.817 (20.8)	0.898 (22.8)	477 (26/7) (30/7)	477 (16/7) T23 556.5 (20/7) T16	20	0.146	18	50	31	White
PR5151	0.899 (22.8)	0.954 (24.2)	556.5 (26/7) (30/7)	636 (20/7) T16	24	0.167	17	50	47	Yellow
PR5152	0.955 (24.3)	1.019 (25.9)	636 (24/7) (26/7) (30/19) 666 (24/7) (26/7)	795 (21/7) T13 795 (20/7) T16	24	0.182	17	25	29	Brown
PR5154	1.020 (25.9)	1.064 (27.0)	715 (24/7) (26/7) 795 (45/7)	795 (22/19) T23 954 (33/7) T7	24	0.182	18	25	29	Blue
PR5155	1.065 (27.1)	1.098 (27.9)	795 (24/7) (54/7)	954 (21/7) T13	26	0.204	17	25	36	Green
PR5156	1.099 (27.9)	1.181 (30.0)	795 (26/7) (30/19) 954 (45/7)	1033.5 (33/7) T7 1033.5 (21/7) T13 1113 (33/7) T7	26	0.250	14	25	48	Orange
PR5158	1.182 (30.0)	1.298 (33.0)	954 (54/7) (30/19) 1033.5 (45/7) (54/7) 1113 (45/7) (54/19)	1113 (39/19) T13 1192.5 (39/19) T13 1272 (33/7) T7 (39/19) T13 1351.5 (33/7) T7	26	0.250	15	25	51	Purple
PR5160	1.299 (33.0)	1.415 (35.9)	1192.5 (45/7) (54/19) 1272 (45/7) (54/19) 1351.5 (45/7)	1351.5 (39/19) T13 1590 (36/7) T7	26	0.250	17	20	44	Blue
PR5162	1.416 (36.0)	1.543 (39.2)	1351.5 (54/19) 1431 (45/7) (54/19) 1590 (45/7	1590 (42/19) T13 1780 (38/19) T8	26	0.250	18	20	48	Yellow
PR5163	1.544 (39.2)	1.685 (42.8)	1590 (54/19) 1780 (84/19)	2156 (64/19) T8	26	0.250	19	15	40	Brown
PR5164	1.686 (42.8)	1.84 (46.7)	2156 (84/19)		26	0.250	21	15	42	Blue

NOTES:

(1) Right-hand lay standard.

(2) For conductor/cable sizes not listed above, select rod set based on cable dia. range.

(3) Applied O.D. of conductor/cable with rods equals cable diameter plus two times rod diameter.

(4) Maximum conductor temperature limits vary with suspension clamp designs. Consult factory for information.

Cross Reference: Armor Rods, Line Guards & Protector Rods

results

Product Data and Conductor Size

Conductor Dia. In. (mm)		Nominal Conductor Size (AWG or kCMIL)				HPS	PLP	DULMISON	HELICAL
Min.	Max.	ACSR/ACSS	ACSR/ACSS TW	AAC, AAAC	ACAR				
0.309 (7.8)	0.326 (8.3)	#2 6/1				AP8114	AR0114	AAR0785	AAR518
0.327 (8.3)	0.346 (8.8)			#1		AP8115	AR0115	AAR0830	AAR519
0.347 (8.8)	0.366 (9.3)	#1 6/1				AP8116	AR0116	AAR0880	AAR520
0.367 (9.3)	0.389 (9.9)			1/0		AP8117	AR0117	AAR0930	AAR521
0.390 (9.9)	0.413 (10.5)	1/0 6/1				AP8118	AR0118	AAR0990	AAR522
0.414 (10.5)	0.436 (11.1)			2/0		AP8119	AR0119	AAR1050	AAR523
0.437 (11.1)	0.463 (11.8)	2/0 6/1				AP8120	AR0120	AAR1110	AAR524
0.464 (11.8)	0.490 (12.4)			3/0		AP8121	AR0121	AAR1180	AAR525
0.491 (12.5)	0.521 (13.2)	3/0 6/1				AP8122	AR0122	AAR1245	AAR526
0.522 (13.3)	0.551 (14.0)			4/0		AP8123	AR0123	AAR1325	AAR527
0.552 (14.0)	0.585 (14.9)	4/0 6/1		250		AP8124	AR0124	AAR1400	AAR528
0.586 (14.9)	0.606 (15.4)		266.8 T16	266.8		AP8125	AR0125	AAR1490	AAR529
0.607 (15.4)	0.630 (16.0)	266.8 18/1				AP8126	AR0126	AAR1540	AAR530
0.631 (16.0)	0.655 (16.6)	266.8 26/7				AP8127	AR0127	AAR1605	AAR531
0.656 (16.7)	0.679 (17.2)		336.4 T16	336.4		AP8128	AR0128	AAR1665	AAR532
0.680 (17.3)	0.703 (17.9)	336.4 18/1	336.4 T23			AP8129	AR0129	AAR1725	AAR533
0.704 (17.9)	0.740 (18.8)	336.4 26/7	397.5 T16	397.5		AP8130	AR0130	AAR1790	AAR534
0.741 (18.8)	0.782 (19.9)	397.5 18/1	477 T13			AP8131	AR0131	AAR1880	AAR535
0.783 (19.9)	0.814 (20.7)	397.5 26/7	477 T16	477, 500	503.6	AP8132	AR0132	AAR1990	AAR536
0.815 (20.7)	0.845 (21.5)		477 T23 556.5 T13			AP8133	AR0133	AAR2070	AAR537

Product Data and Conductor Size (*continued*)

Conductor Dia. In. (mm)		Nominal Conductor Size (AWG or kCMIL)				HPS	PLP	DULMISON	HELICAL
Min.	Max.	ACSR/ACSS	ACSR/ACSS TW	AAC, AAAC	ACAR				
0.846 (21.5)	0.907 (23.0)	480 5/7	556.5 T16 636 T13	556.5	545	AP8134	AR0134	AAR2150	AAR538
0.908 (23.1)	0.929 (23.6)	556.5 26/7	636 T16 664.8 T16	636	653.1	AP8135	AR0135	AAR2305	AAR539
0.930 (23.6)	0.976 (24.8)	556.5 30/7 605 26/7		715.5		AP8136	AR0136	AAR2360	AAR540
0.977 (24.8)	1.016 (25.8)	636 24/7 26/7 666 24/7 26/7	762.8 T16 795 T13, T16	750	739.8	AP8137 AP8137E	AR0137 AR0500	AAR2480 AAR2480E	AAR541 -
1.017 (25.8)	1.035 (26.3)	636.0 30/19		795		AP8138 AP8138E	AR0138 AR0501	AAR2585 AAR2585E	AAR542 -
1.036 (26.3)	1.064 (27.0)	715.5 26/7 795 45/7	964 T7		853.7	AP8139 AP8139E	AR0139 AR0502	AAR2630 AAR2630E	AAR543 -
1.065 (27.1)	1.098 (27.9)	795 24/7	964 T13			AP8140 AP8140E	AR0140 AR0503	AAR2705 AAR2705E	AAR544 -
1.099 (27.9)	1.139 (28.9)	795 26/7	959.6 T16 1033.5 T13	954	927.2	AP8141 AP8141E	AR0141 AR0504	AAR2790 AAR2790E	AAR545 -
1.140 (29.0)	1.161 (29.5)	954 36/1	1113 T7			AP8142 AP8142E	AR0142 AR0505	AAR2895 AAR2895E	AAR546 -
1.162 (29.5)	1.208 (30.7)	954 45/7 54.7 1033.5 45/7	1158.4 T7, T13 1113 T13		1024.5 1080.6	AP8143 AP8143E	AR0143 AR0506	AAR2950 AAR2950E	AAR547 -
1.209 (30.7)	1.269 (32.2)	1033.5 54/7 1113 45/7	1192.5 T13 1272 T7, T13 1233.6 T13 1351 T7	1113	1109 1198	AP8144 AP8144E	AR0144 AR0507	AAR3070 AAR3070E	AAR548 -
1.270 (32.3)	1.327 (33.7)	1113 54/19 1192.5 45/7	1351.5 T13 1431 T7	1272	1277	AP8145 AP8145E	AR0145 AR0508	AAR3225 AAR3225E	AAR549 -
1.328 (33.7)	1.390 (35.3)	1192.5 54/19 1272 45/7 54/19 1351.5 45/7	1433.6 T13 1590 T7	1351.5 1431	1361.5	AP8146 AP8146E	AR0146 AR0509	AAR3375 AAR3375E	AAR550 -
1.391 (35.3)	1.440 (36.6)	1351.5 54/19 1434 45/7	1590 T13 1622 T13		1534.4	AP8147 AP8147E	AR0147 AR0510	AAR3535 AAR3535E	AAR551 -
1.441 (36.6)	1.508 (38.3)	1596 3/7	1730.6 T13 1949.6 T7	1590	1703	AP8163 AP8163E	AR0163 AR0511	AAR3660 AAR3660E	AAR552 -
1.509 (38.3)	1.578 (40.1)	1592 16/19	1926.9 T13	1750	1798	AP8164 AP8164E	AR0164 AR0512	AAR3835 AAR3835E	AAR553 -
1.579 (40.1)	1.651 (41.9)	1780.0 84/19	2156 T8	2000	1933	AP8165 AP8165E	AR0165 AR0513	AAR4010 AAR4010E	AAR554 -
1.652 (42.0)	1.728 (43.9)	2034.5 72/7				AP8166 AP8166E	AR0166 AR0514	AAR4195 AAR4195E	AAR555 -
1.729 (43.9)	1.809 (45.9)	2167.0 72/7 2156 84/19	2627.3 T8	2300	2338	AP8167 AP8167E	AR0167 AR0516	AAR4390 AAR4390E	AAR556 -
1.810 (46.0)	1.898 (48.2)	2515.0 76/19		2500	2493	AP8168 AP8168E	AR0168 AR0517	AAR4595 AAR4595E	AAR557 -

Armor Rods — *Alumunum, Double Suspension*

Product Data and Conductor Size

Conductor Dia. In. (mm)		Nominal Conductor Size (AWG or kCMIL)				HPS	PLP	DULMISON	HELICAL
Min.	Max.	ACSR/ACSS	ACSR/ACSS TW	AAC, AAAC	ACAR				
0.309 (7.8)	0.326 (8.3)	#2 6/1				DAP8114	AR0314	DAAR0785	AAR618
0.327 (8.3)	0.346 (8.8)			#1		DAP8115	AR0315	DAAR0830	AAR619
0.347 (8.8)	0.366 (9.3)	#1 6/1				DAP8116	AR0316	DAAR0880	AAR620
0.367 (9.3)	0.389 (9.9)			1/0		DAP8117	AR0317	DAAR0930	AAR621
0.390 (9.9)	0.413 (10.5)	1/0 6/1				DAP8118	AR0318	DAAR0990	AAR622
0.414 (10.5)	0.436 (11.1)			2/0		DAP8119	AR0319	DAAR1050	AAR623
0.437 (11.1)	0.463 (11.8)	2/0 6/1				DAP8120	AR0320	DAAR1110	AAR624
0.464 (11.8)	0.490 (12.4)			3/0		DAP8121	AR0321	DAAR1180	AAR625
0.491 (12.5)	0.521 (13.2)	3/0 6/1				DAP8122	AR0322	DAAR1245	AAR626
0.522 (13.3)	0.551 (14.0)			4/0		DAP8123	AR0323	DAAR1325	AAR627
0.552 (14.0)	0.585 (14.9)	4/0 6/1		250		DAP8124	AR0324	DAAR1400	AAR628
0.586 (14.9)	0.606 (15.4)		266.8 T16	266.8		DAP8125	AR0325	DAAR1490	AAR629
0.607 (15.4)	0.630 (16.0)	266.8 18/1				DAP8126	AR0326	DAAR1540	AAR630
0.631 (16.0)	0.655 (16.6)	266.8 26/7				DAP8127	AR0327	DAAR1605	AAR631
0.656 (16.7)	0.679 (17.2)		336.4 T16	336.4		DAP8128	AR0328	DAAR1665	AAR632
0.680 (17.3)	0.703 (17.9)	303 5/7	336.4 T23			DAP8129	AR0329	DAAR1725	AAR633
0.704 (17.9)	0.740 (18.8)	336.4 26/7	397.5 T16	397.5		DAP8130	AR0342	DAAR1790	AAR634

Armor Rods — *Galvanized Steel*

Product Data and Conductor Size

Conductor Dia. In. (mm)		HS & EHS Cable	HPS	PLP	DULMISON	HELICAL
Min.	Max.					
0.309 (7.8)	0.326 (8.3)	5/16"	APGS0516	AR1128	SAR0785	GAR526
0.347 (8.8)	0.373 (9.5)	3/8"	APGS0038	AR1130	SAR0880	GAR528
0.414 (10.5)	0.436 (11.1)	7/16"	APGS0716	AR1133	SAR1050	GAR531
0.491 (12.5)	0.521 (13.2)	1/2"	APGS0012	AR1139	SAR1245	GAR534

Armor Rods — *Alumunum-Clad Steel (Alumoweld®)*

Product Data and Conductor Size

Conductor Dia. In. (mm)		HS & EHS Cable	HPS	PLP	DULMISON	HELICAL
Min.	Max.					
0.296 (7.5)	0.314 (8.0)	5/16", 7#10, 3#7, 10M	APAS0710	AR2124	AWAR0750	AWAR521
0.334 (8.5)	0.352 (8.9)	7#9, 3#6, 12.5M	APAS0079	AR2126	AWAR0850	AWAR523
0.373 (9.5)	0.392 (10.0)	3/8", 7#8, 3#5, 16M	APAS0078	AR2128	AWAR0950	AWAR525
0.409 (10.4)	0.425 (10.8)	18M	APAS018M	AR2130	AWAR1040	AWAR526
0.426 (10.8)	0.45 (11.4)	7/16", 7#7, 20M	APAS0077	AR2131	AWAR1080	AWAR528
0.477 (12.1)	0.504 (12.8)	1/2", 7#6	APAS0076	AR2133	AWAR1210	AWAR530
0.535 (13.6)	0.565 (14.4)	9/16", 7#5	APAS0075	AR2135	AWAR1360	AWAR532

Product Data and Conductor Size

Conductor Dia. In. (MM)		Nominal Conductor Size, (AWG or kCMIL)				HPS	PLP	DULMISON	HELICAL
Min.	Max.	ACSR/ACSS	ACSR/ACSS TW	AAC, AAAC	ACAR				
0.290 (7.4)	0.308 (7.8)			#2		PL5130 DPL5130	MG0130 MG0313	ALG0735 DALG0735	ALG517 ALG617
0.309 (7.8)	0.326 (8.3)	#2 6/1				PL5131 DPL5131	MG0131 MG0314	ALG0785 DALG0785	ALG518 ALG618
0.327 (8.3)	0.346 (8.8)			#1		PL5132 DPL5132	MG0132 MG0315	ALG0830 DALG0830	ALG519 ALG619
0.347 (8.8)	0.366 (9.3)	#1 6/1				PL5133 DPL5133	MG0133 MG0316	ALG0880 DALG0880	ALG520 ALG620
0.367 (9.3)	0.389 (9.9)			1/0		PL5134 DPL5134	MG0134 MG0317	ALG0930 DALG0930	ALG521 ALG621
0.390 (9.9)	0.413 (10.5)	1/0 6/1		123.3		PL5135 DPL5135	MG0135 MG0318	ALG0990 DALG0990	ALG522 ALG622
0.414 (10.5)	0.436 (11.1)			2/0		PL5136 DPL5136	MG0136 MG0319	ALG1050 DALG1050	ALG523 ALG623
0.437 (11.1)	0.463 (11.8)	2/0 6/1				PL5137 DPL5137	MG0137 MG0320	ALG1110 DALG1110	ALG524 A;G624
0.464 (11.8)	0.490 (12.4)			3/0		PL5138 DPL5138	MG0138 MG0321	ALG1180 DALG1180	ALG525 ALG615
0.491 (12.5)	0.521 (13.2)	3/0 6/1		195.7		PL5139 DPL5139	MG0139 MG0322	ALG1245 DALG1245	ALG526 ALG626
0.522 (13.3)	0.551 (14.0)			4/0		PL5140 DPL5140	MG0140 MG0323	ALG1325 DALG1325	ALG527 ALG627
0.552 (14.0)	0.585 (14.9)	4/0 6/1		250		PL5141 DPL5141	MG0141 MG0324	ALG1400 DALG1400	ALG528 ALG628
0.586 (14.9)	0.606 (15.4)		266.8 T16	266.8		PL5142 DPL5142	MG0142 MG0325	ALG1490 DALG1490	ALG529 ALG629
0.607 (15.4)	0.630 (16.0)	266.8 18/1				PL5143 DPL5143	MG0143 MG0326	ALG1540 DALG1540	ALG530 ALG630
0.631 (16.0)	0.655 (16.6)	266.8 26/7		312.8		PL5144 DPL5144	MG0144 MG0327	ALG1605 DALG1605	ALG531 ALG631
0.656 (16.7)	0.679 (17.2)		336.4 T16	336.4		PL5145 DPL5145	MG0145 MG0328	ALG1665 DALG1665	ALG532 ALG632
0.680 (17.3)	0.703 (17.9)	336.4 18/1	336.4 T23			PL5146 DPL5146	MG0146 MG0329	ALG1725 DALG1725	ALG533 ALG633
0.704 (17.9)	0.740 (18.8)	336.4 26/7	397.5 T16	397.5		PL5147 DPL5147	MG0147 MG0330	ALG1790 DALG1790	ALG534 ALG634
0.741 (18.8)	0.792 (20.1)	397.5 18/1 26/7	477 T13 T16	477		PL5148 DPL5148	MG0148 MG0331	ALG1880 DALG1880	ALG535 ALG635

Product Data and Conductor Size (*continued*)

Conductor Dia. In. (MM)		Nominal Conductor Size, (AWG or kCMIL)				HPS	PLP	DULMISON	HELICAL
Min.	Max.	ACSR/ACSS	ACSR/ACSS TW	AAC, AAAC	ACAR				
0.793 (20.1)	0.840 (21.3)	397.5 30/7, 477 18/1	477 T23, 556.5 T13	500	503.6	PL5149 DPL5149	MG0149 MG0332	ALG2015 DALG2015	ALG536 ALG636
0.841 (21.4)	0.898 (22.8)	477 26/7 30/7	556.5 T16, 565.3 T16 571.7 T13, 636 T13	556.5, 600	587.2	PL5150 DPL5150	MG0150 MG0333	ALG2135 DALG2135	ALG537 ALG637
0.899 (22.8)	0.954 (24.2)	556.5 26/7 30/7 636 18/1	636 T16, 664.6 T16	636	653.1	PL5151 DPL5151	MG0151 MG0334	ALG2285 DALG2285	ALG538 ALG638
0.955 (24.3)	0.986 (25.0)	605 26/7, 636 24/7	768.2 T13, 795 T7	715.5		PL5152 DPL5152	MG0152 MG0335	ALG2425 DALG2425	ALG539 ALG639
0.987 (25.1)	1.016 (25.8)	605 30/19, 636 26/7 666 24/7 26/7	762.8 T16, 795 T16	750	739.8	PL5153 DPL5153	MG0153 MG0336	ALG2505 DALG2505	ALG540 ALG640
1.017 (25.8)	1.064 (27)	636 30/19 715 26/7, 795 45/7	954 T7	795	853.7	PL5154 DPL5154	MG0154 MG0337	ALG2585 DALG2585	ALG541 ALG641
1.065 (27.1)	1.098 (27.9)	715.5 30/19 795 54/7	954 T13	874.5, 900		PL5155 DPL5155	MG0155 MG0338	ALG2705 DALG2705	ALG542 ALG642
1.099 (27.9)	1.153 (29.3)	795 26/7 30/19	959.6 T16 1033.5 T7 T13 1113 T7	954	927.2	PL5156 DPL5156	MG0156 MG0339	ALG2790 DALG2790	ALG543 ALG643
1.154 (29.3)	1.208 (30.7)	954 45/7 54/7	1158 T7 1113 T13, 1192.5 T7	1033.5	1024.5	PL5157 DPL5157	MG0157 MG0340	ALG2930 DALG2930	ALG544 ALG644
1.209 (30.7)	1.268 (32.2)	954 30/19 1033.5 45/7 54/7 1113 45/7	1192.5 T13, 1233.6 T13 1272 T7 T13 1351.5 T7	1113, 1192.5	1109 - 1198	PL5158 DPL5158	MG0158 MG0341	ALG3070 DALG3070	ALG545 ALG645
1.269 (32.2)	1.327 (33.7)	1113 54/19 1192.5 45/7	1351.5 T13 1431 T7	1272	1277	PL5159 DPL5159	MG0159 MG0342	ALG3225 DALG3225	ALG546 ALG646
1.328 (33.7)	1.390 (35.3)	1192.5 54/19 1272 45/7 54/19 1351.5 45/7	1431 & 1433.6 T13 1557.4 & 1590 T7	1351.5, 1431	1361.5	PL5160 DPL5160	MG0160 MG0343	ALG3375 DALG3375	ALG547 ALG647
1.391 (35.3)	1.440 (36.6)	1351.5 54/19 1431 45/7	1590 & 1622 T13		1534.4	PL5161 DPL5161	MG0161 MG0344	ALG3535 DALG3535	ALG548 ALG648
1.441 (36.6)	1.508 (38.3)	1431 54/19 1590 45/7	1780 T8 1949.6 T7	1590	1703	PL5162 DPL5162	MG0162 MG0345	ALG3660 DALG3660	ALG549 ALG649

Product Data and Conductor Size

Conductor Dia. In. (MM)		Nominal Conductor Size, (AWG or kCMIL)		HPS	PLP
Min.	Max.	ACSS	ACSS TW		
0.476 (12.1)	0.533 (13.5)			PR5139	PR-0139
0.534 (13.6)	0.585 (14.9)			PR5141	PR-0141
0.586 (14.9)	0.618 (15.7)			PR5142	PR-0142
0.619 (15.7)	0.667 (16.9)	266.8 26/7		PR5144	PR-0144
0.668 (17.0)	0.722 (18.3)	336.4 26/7	336.4 T23	PR5146	PR-0146
0.723 (18.4)	0.816 (20.7)	397.5 26/7	477 T13, T16	PR5148	PR-0148
0.817 (20.8)	0.898 (22.8)	477 24/7, 26/7	477 T23	PR5150	PR-0150
0.899 (22.8)	0.954 (24.2)	556.5 24/7, 26/7	636 T16, T23	PR5151	PR-0151
0.955 (24.3)	1.019 (25.9)	636 24/7, 26/7 666 24/7, 26/7	765 T13, T16	PR5152	PR-0152
1.020 (25.9)	1.064 (27.0)	715.5 24/7, 26/7 795 45/7	795 T23	PR5154	PR-0154
1.065 (27.1)	1.098 (27.9)	795 24/7, 54/7	954 T13	PR5155	PR-0155
1.099 (27.9)	1.181 (30.0)	795 26/7, 30/7 954 45/7	959.6 T16 1033.5 T13	PR5156	PR-0156
1.182 (30.0)	1.298 (33.0)	954 54/7, 1033.5 54/7 1113 45/7, 54/19	1113 T13, 1192.5 T7, T13 1233.6 T13, 1272 T7, T13, 1351.5 T7	PR5158	PR-0158
1.299 (33.0)	1.415 (35.9)	1192.5 45/7, 54/19 1272 45/7, 54/19, 1351.5 45/7	1351.5 T13, 1433.6 T13 1590 T7, T13	PR5160	PR-0160
1.416 (36.0)	1.543 (39.2)	1351.5 54/19 1590 45/7	1622 T13, 1780 T8	PR5162	PR-0162
1.544 (39.2)	1.685 (42.8)	1590 54/19 1780 84/19	1926.9 T13, 2156 T8	PR5163	PR-0163
1.686 (42.8)	1.840 (46.7)	2156 84/19 2312 76/19	2627.3 T8	PR5164	PR-0164

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Peace of Mind



Hubbell Power Systems' (HPS) customers know that their hardware requirements — from metallurgy to finished product — are not only designed and manufactured with the utmost precision and electrical integrity, but they come together quickly and efficiently as well.

With a full spectrum of tower hardware, this section lists Hubbell's standard transmission tangent, angle, deadend, and jumper assemblies which include Anderson™ and Fargo® Connectors and Quadri*Sil™ Insulators. The assemblies are grouped by voltage (Standard or EHV), number of conductors, general assembly type, and strength of insulators. See Table of Contents for further clarification.

Each assembly is defined by a Base Assembly Catalog Number which includes all items in the bill of material chart shown. However, this assembly number alone will not specify an exact bill of material until final customer-specific information is provided, i.e., Tangent assemblies require the customer to provide conductor and specific voltage information to select the exact suspension clamp and insulator to be included.

For your convenience, a tabulated chart is included which provides the most common insulator part number for each applicable voltage for that given assembly. Please see quoting and ordering instructions below.

For Quotes and Ordering

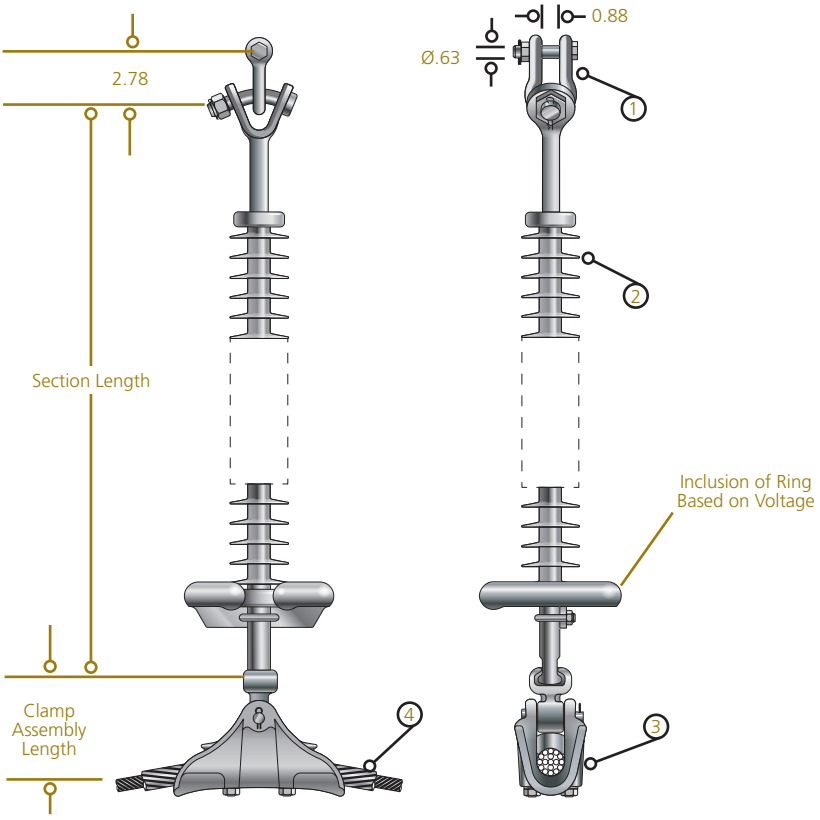
1. Select Base Assembly based on Voltage, Number of Conductors, Assembly Type, and Insulator String Strength.
2. Specify Conductor Size, Type and Stranding to be used (e.g., 795 kcmil, ACSS, 26/7).
3. Specify whether armor rods or line guards will be used on the conductor.

NOTE: The suspension clamp/deadend assembly, armor rods/line guards (if required), and the specific insulator will be chosen by HPS based on selection criteria provided by the customer.

Tangent Suspension, Single Conductor

Single-String 30k lb Assembly, 69kV - 230kV

ASSEMBLY
TAT11



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	1	Forged Steel	30,000
2	See Chart	Insulator, ANSI 52-5	1	Polymer	—
3	See Note 1	Suspension Clamp w/Socket	1	Aluminum	—
4	See Note 2	Armor Rods	1	Aluminum	—

Typical Insulator Selection

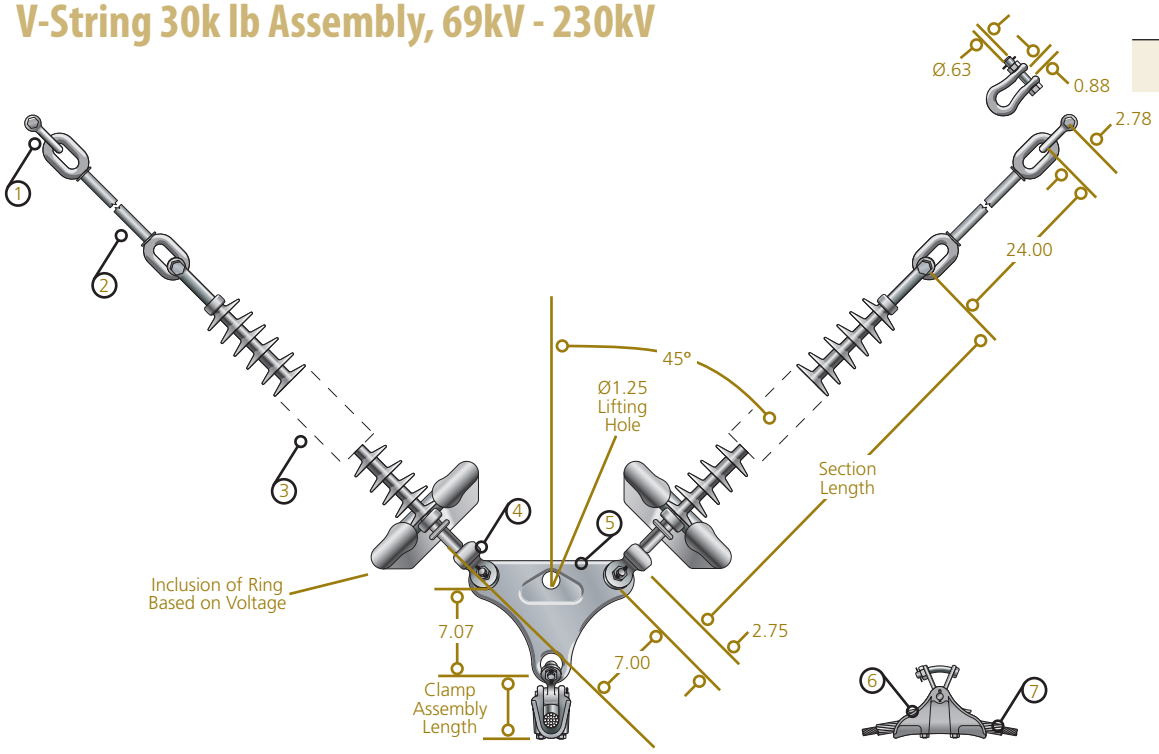
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
69	S030023S2010	35.4	30,000	—
115	S030036S2010	48.4	30,000	—
138	S030043S2010	54.9	30,000	—
161	S030056S2010	67.8	30,000	—
230	S030073S201A	85.1	30,000	8"Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

Tangent Suspension, Single Conductor

V-String 30k lb Assembly, 69kV - 230kV

ASSEMBLY
TAT12



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	2	Forged Steel	30,000
2	HOO3024	Oval Eye Ext. Link (24")	2	Forged Steel	30,000
3	See Chart	Insulator, ANSI 52-5	2	Polymer	—
4	SYC30	Socket Y-Clevis	2	Ductile Iron	30,000
5	YPD30152382	Yoke Plate	1	Ductile Iron	30,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	1	Aluminum	—
7	See Note 2	Armor Rods	1	Aluminum	—

Typical Insulator Selection

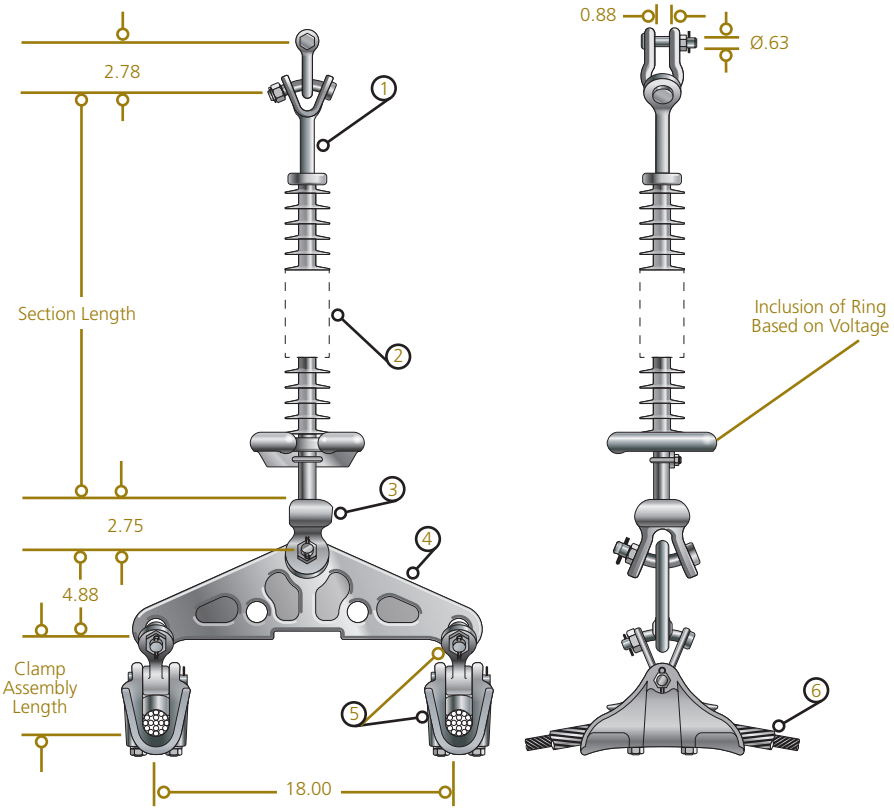
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
69	S030023S2010	35.4	30,000	—
115	S030036S2010	48.4	30,000	—
138	S030043S2010	54.9	30,000	—
161	S030056S2010	67.8	30,000	—
230	S030073S201A	85.1	30,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

Tangent Suspension, 2-Bundle Conductor

Single-String 30k lb Assembly, 138kV - 230kV

ASSEMBLY
TAT21



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	1	Forged Steel	30,000
2	See Chart	Insulator, ANSI 52-5	1	Polymer	—
3	SYC30	Socket Y-Clevis	1	Ductile Iron	30,000
4	YPD30184373	Yoke Plate	1	Ductile Iron	30,000
5	See Note 1	Suspension Clamp w/Y-Clevis Eye	2	Aluminum	—
6	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

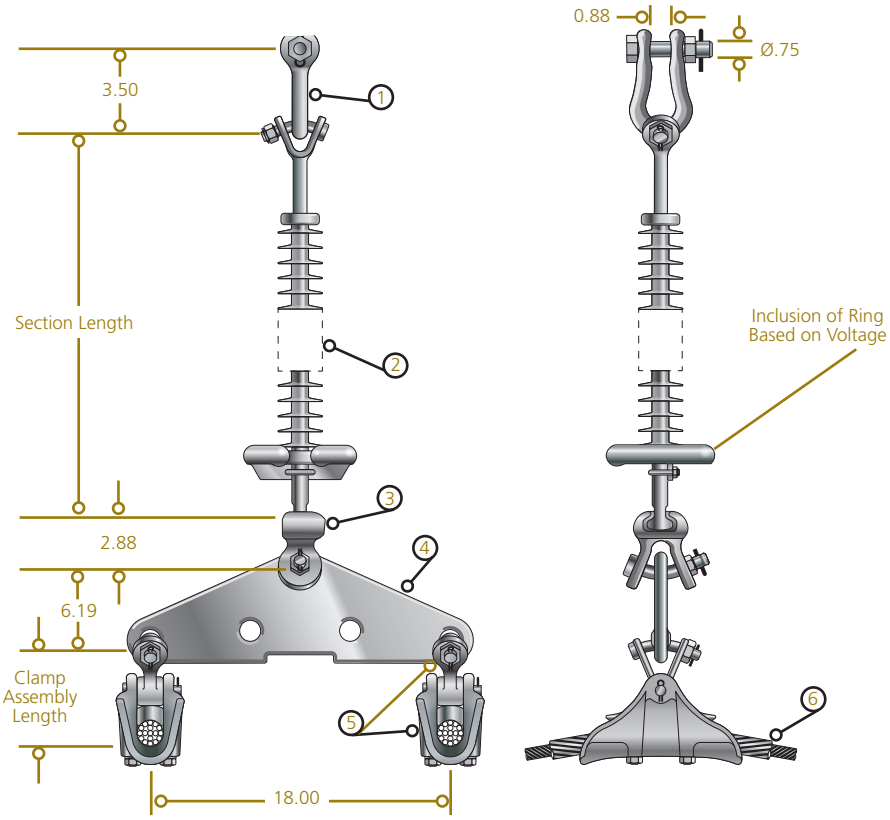
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
138	S030043S2010	54.9	30,000	—
161	S030056S2010	67.8	30,000	—
230	S030073S201A	85.1	30,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

Tangent Suspension, 2-Bundle Conductor

Single-String 50k lb Assembly, 138kV - 230kV

ASSEMBLY
TAT21



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50BNK	Anchor Shackle	1	Forged Steel	60,000
2	See Chart	Insulator, ANSI 52-11	1	Polymer	—
3	SYC50	Socket Y-Clevis	1	Ductile Iron	50,000
4	YPD50185491	Yoke Plate	1	Ductile Iron	50,000
5	See Note 1	Suspension Clamp w/Y-Clevis	2	Aluminum	—
6	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
138	S050043S2010	57.3	50,000	—
161	S050056S2010	70.3	50,000	—
230	S050073S201A	87.6	50,000	8" Line End

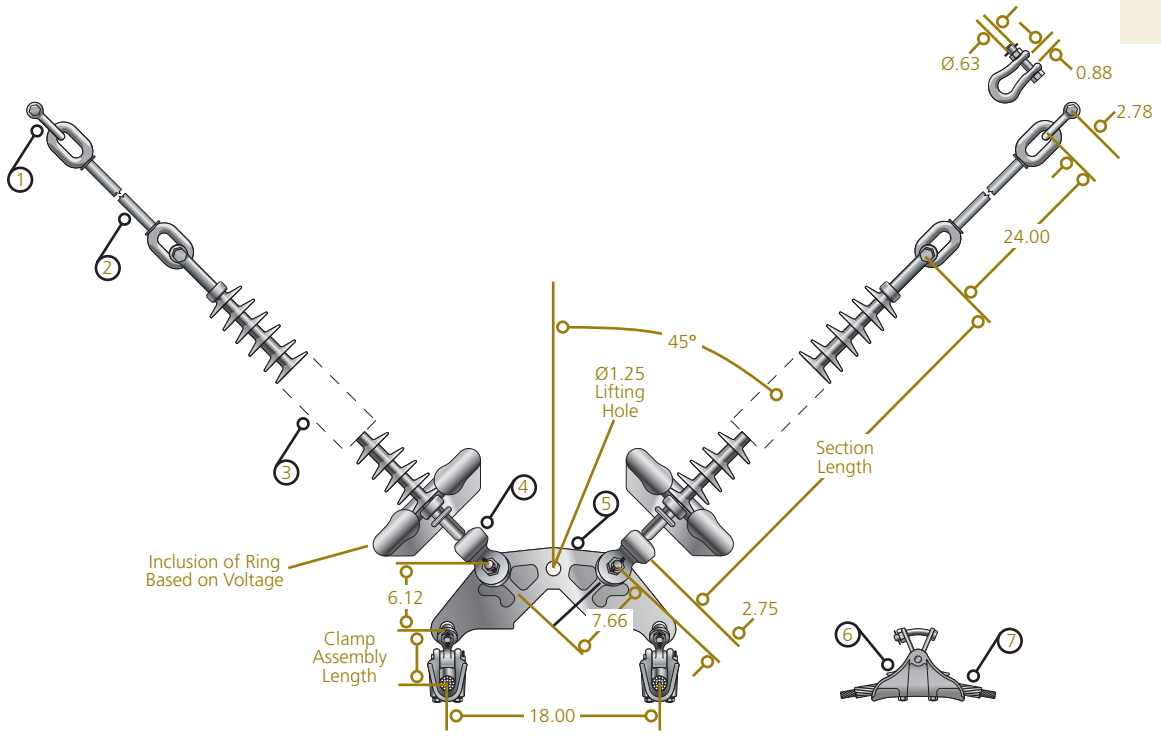
NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

Tangent Suspension, 2-Bundle Conductor

V-String 30k lb Assembly, 138kV - 230kV

ASSEMBLY

TAT22



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	2	Forged Steel	30,000
2	HOO3024	Oval Eye Ext. Link (24")	2	Forged Steel	30,000
3	See Chart	Insulator, ANSI 52-5	2	Polymer	—
4	SYC30	Socket Y-Clevis	2	Ductile Iron	30,000
5	YPV30172592	Yoke Plate	1	Ductile Iron	30,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	2	Aluminum	—
7	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

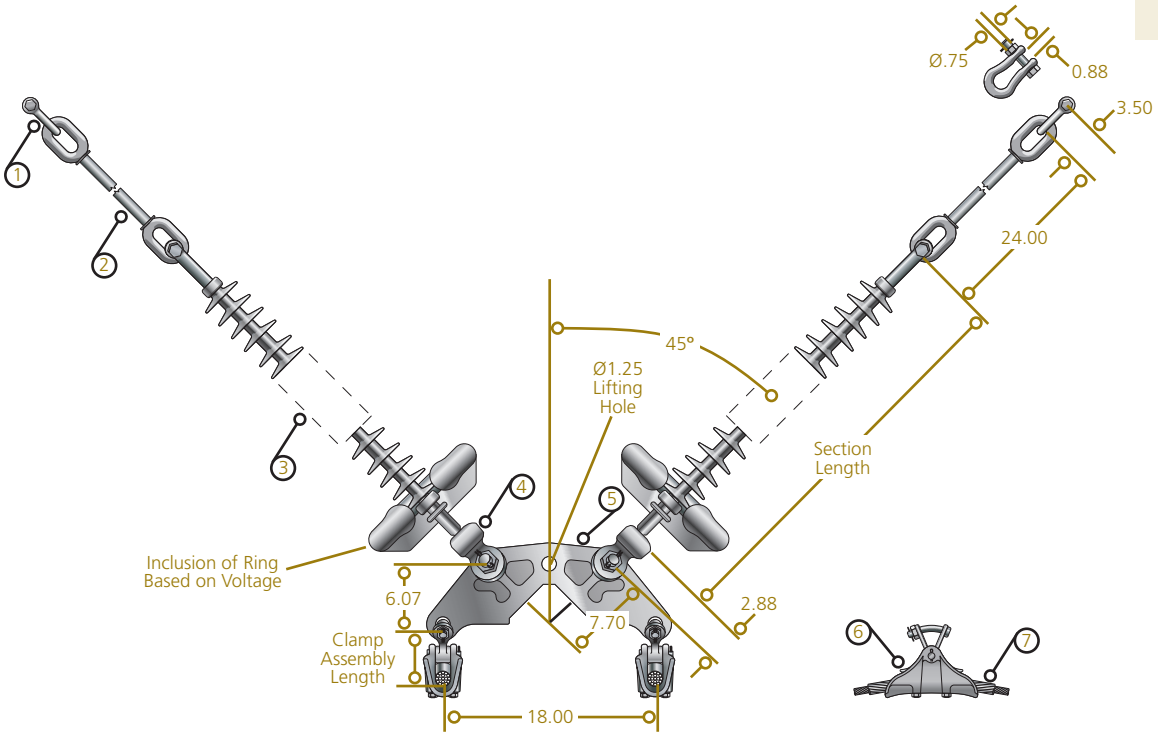
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
138	S030043S2010	54.9	30,000	—
161	S030056S2010	67.8	30,000	—
230	S030073S201A	85.1	30,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

Tangent Suspension, 2-Bundle Conductor

V-String 50k lb Assembly, 138kV - 230kV

ASSEMBLY
TAT22



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50BNK	Anchor Shackle	2	Forged Steel	60,000
2	HOO5024	Oval Eye Ext. Link (24")	1	Forged Steel	60,000
3	See Chart	Insulator, ANSI 52-11	2	Polymer	—
4	SYC50	Socket Y-Clevis	2	Ductile Iron	50,000
5	YPV5019011	Yoke Plate	1	Ductile Iron	50,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	2	Aluminum	—
7	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

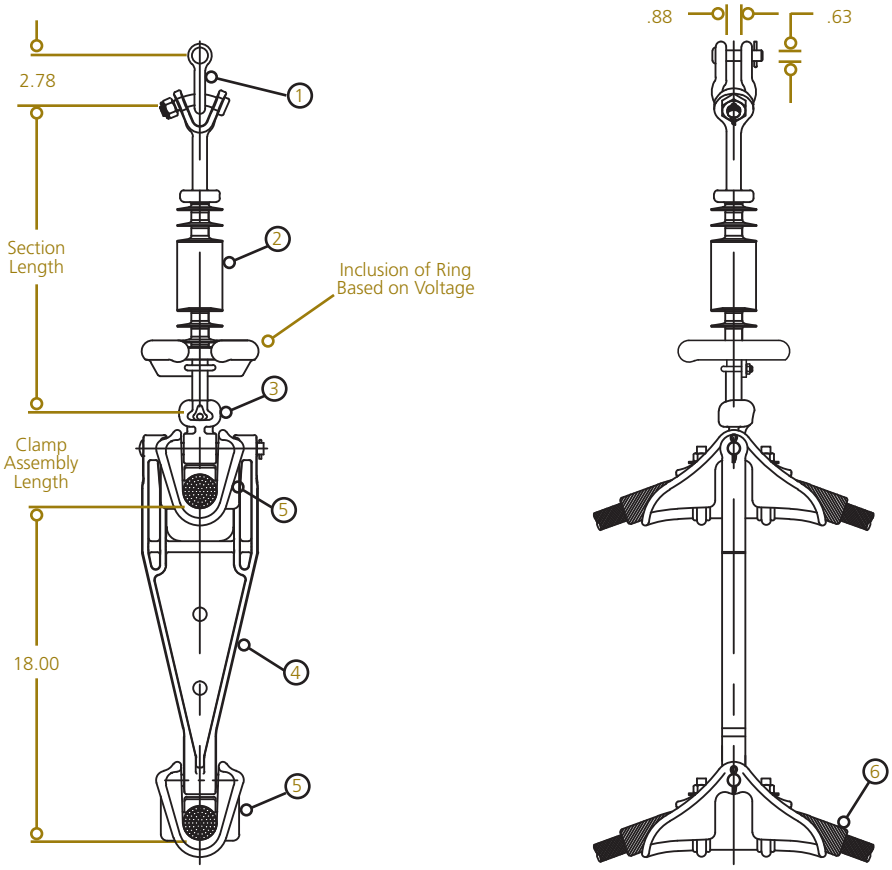
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
138	S050043S2010	57.3	50,000	—
161	S050056S2010	70.3	50,000	—
230	S050073S201A	87.6	50,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

Tangent Suspension, 2-Bundle Vertical Conductor

Single-String 30k lb Assembly, 138kV - 230kV

ASSEMBLY
TAT21W



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	1	Forged Steel	30,000
2	See Chart	Insulator, ANSI 52-5	1	Polymer	—
3	SA16	Socket Eye	1	Ductile Iron	30,000
4	YPW3018218	Yoke, Vertical Bungling	1	Aluminum	30,000
5	See Note 1	Suspension Clamp	2	Aluminum	—
6	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

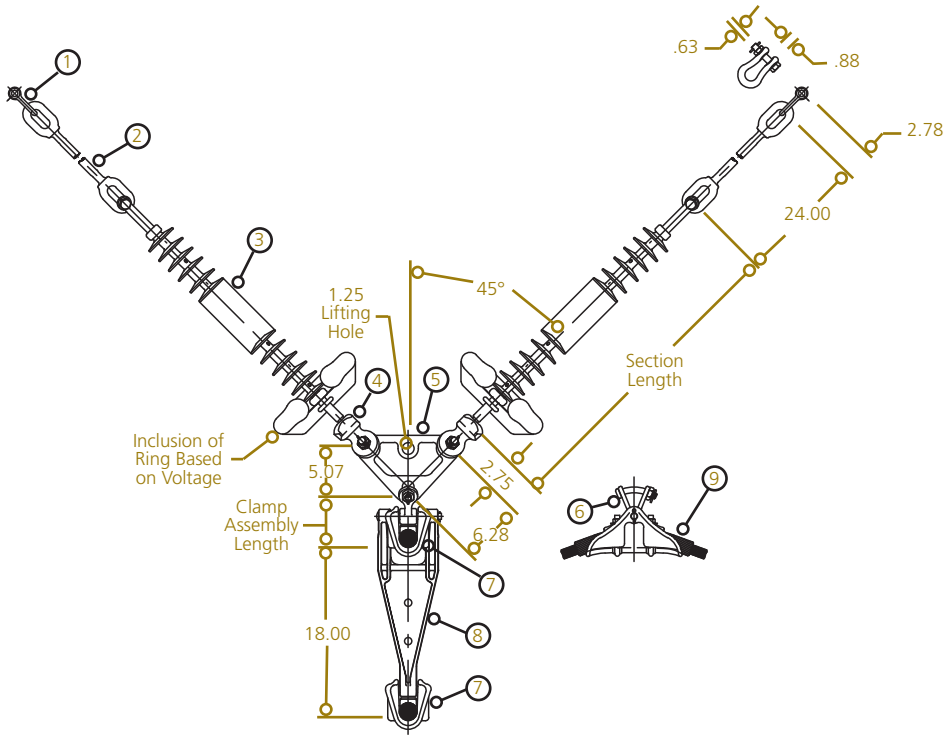
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
138	S030043S2010	54.9	30,000	—
161	S030056S2010	67.8	30,000	—
230	S030073S201A	85.1	30,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

Tangent Suspension, Double Conductor

V-String 30k lb Assembly, 138kV - 230kV

ASSEMBLY
TAT22W



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	2	Forged Steel	30,000
2	HO03024	Oval Eye Ext. Link (24")	2	Forged Steel	30,000
3	See Chart	Insulator, ANSI 52-5	2	Polymer	—
4	SYC30	Socket Y-Clevis	2	Ductile Iron	30,000
5	YPD5024685	Yoke Plate	1	Ductile Iron	50,000
6	YCS1690	Y-Clevis Eye	1	Ductile Iron	30,000
7	See Note 1	Suspension Clamp	2	Aluminum	—
8	YPW3018218	Yoke, Vertical Bundling	1	Aluminum	30,000
9	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

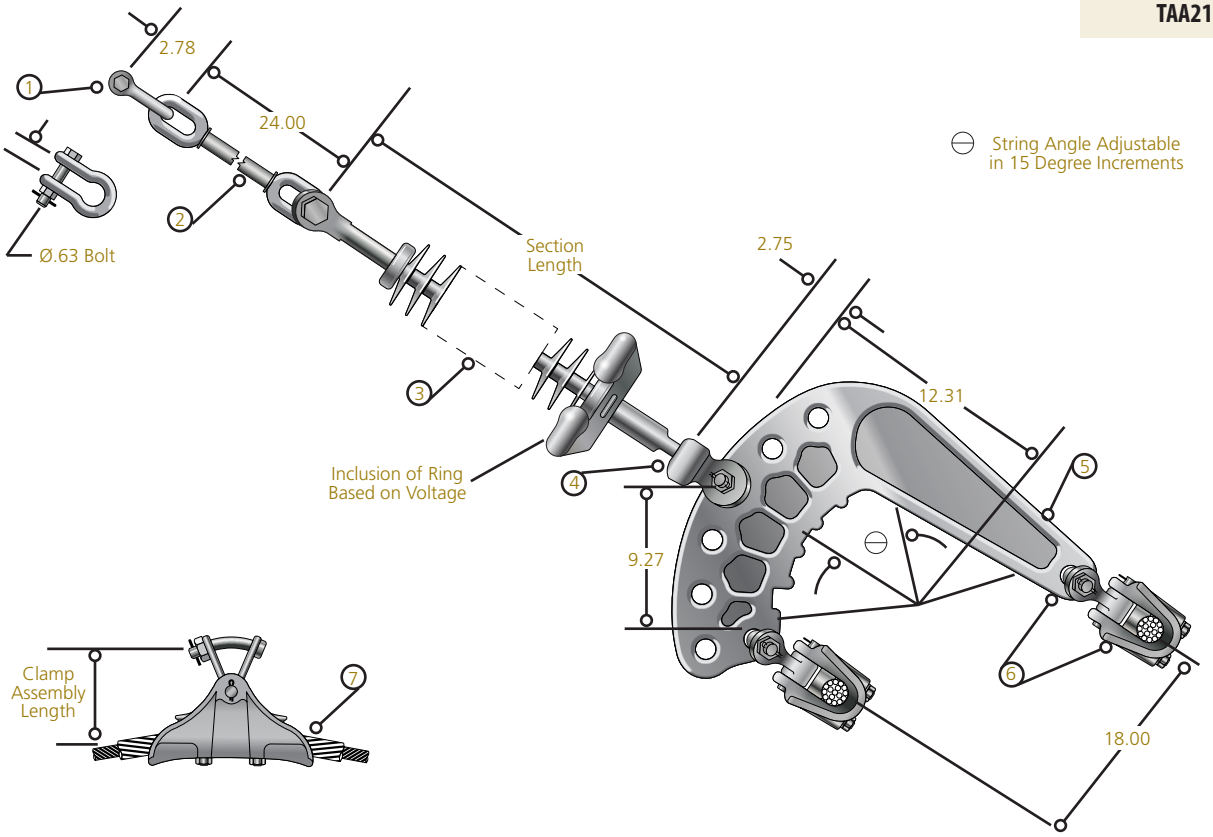
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
138	S030043S2010	54.9	30,000	—
161	S030056S2010	67.8	30,000	—
230	S030073S201A	85.1	30,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

Angle Suspension, 2-Bundle Conductor

Running Angle 30k lb Assembly, 138kV - 230kV

ASSEMBLY
TAA21



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	1	Forged Steel	30,000
2	HOO3024	Oval Eye Ext. Link (24")	1	Forged Steel	30,000
3	See Chart	Insulator, ANSI 52-5	1	Polymer	—
4	SYC30	Socket Y-Clevis	1	Ductile Iron	30,000
5	YPC5026001	Yoke Plate	1	Ductile Iron	50,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	2	Aluminum	—
7	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

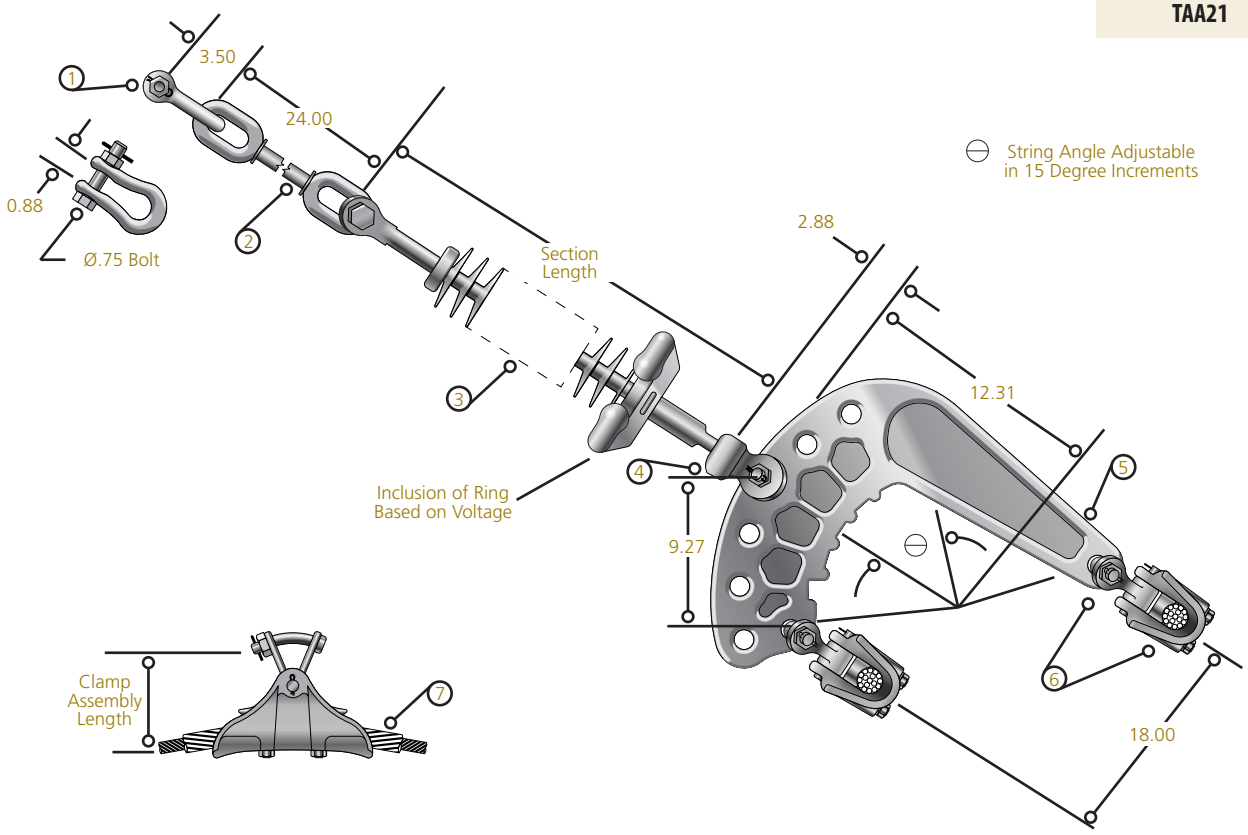
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
138	S030043S2010	54.9	30,000	—
161	S030056S2010	67.8	30,000	—
230	S030073S201A	85.1	30,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

Angle Suspension, 2-Bundle Conductor

Running Angle 50k lb Assembly, 138kV - 230kV

ASSEMBLY
TAA21



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50BNK	Anchor Shackle	1	Forged Steel	60,000
2	HOO5024	Oval Eye Ext. Link (24")	1	Forged Steel	60,000
3	See Chart	Insulator, ANSI 52-5	1	Polymer	—
4	SYC50	Socket Y-Clevis	1	Ductile Iron	50,000
5	YPC5026001	Yoke Plate	1	Ductile Iron	50,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	2	Aluminum	—
7	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

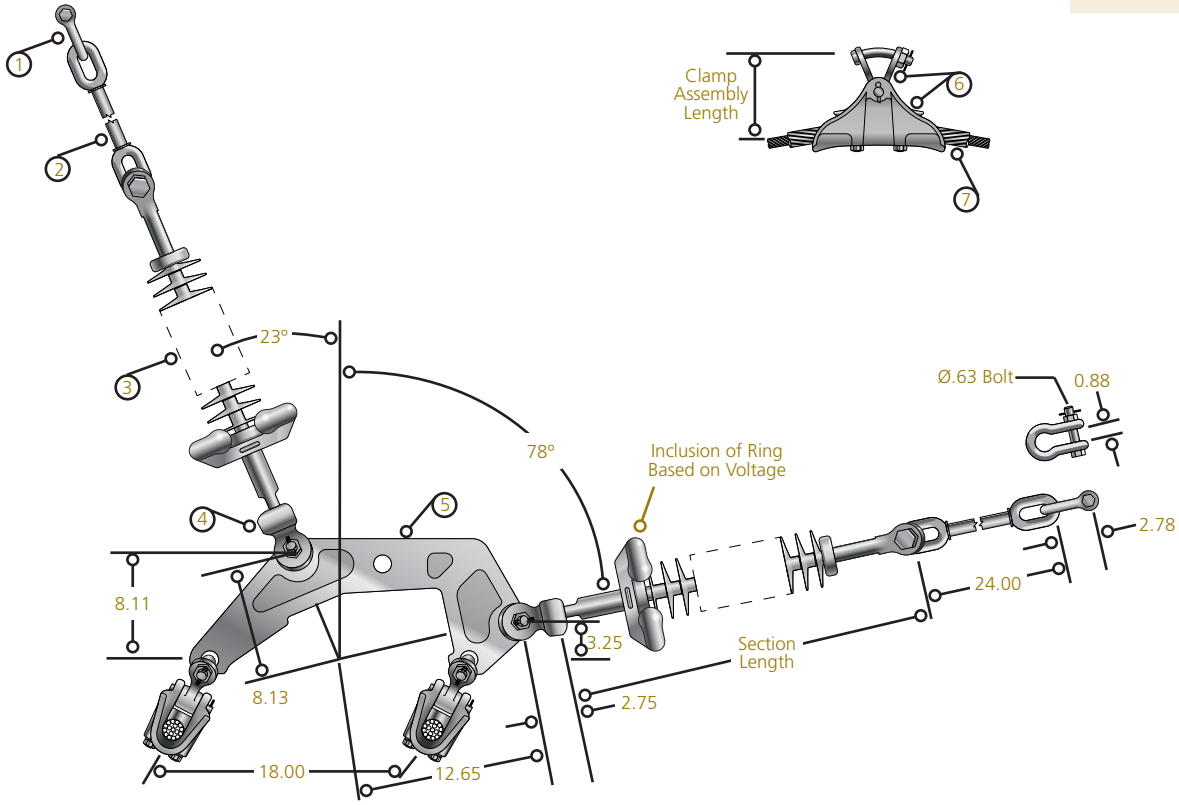
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
138	S050043S2010	57.3	50,000	—
161	S050056S2010	70.3	50,000	—
230	S050073S201A	87.6	50,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

Angle Suspension, 2-Bundle Conductor

Angle V 30k lb Assembly, 138kV - 230kV

ASSEMBLY
TAA22



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	2	Forged Steel	30,000
2	HOO3024	Oval Eye Ext. Link (24")	2	Forged Steel	30,000
3	See Chart	Insulator, ANSI 52-5	2	Polymer	—
4	SYC30	Socket Y-Clevis	2	Ductile Iron	30,000
5	YPC30174241	Yoke Plate	1	Ductile Iron	30,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	2	Aluminum	—
7	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

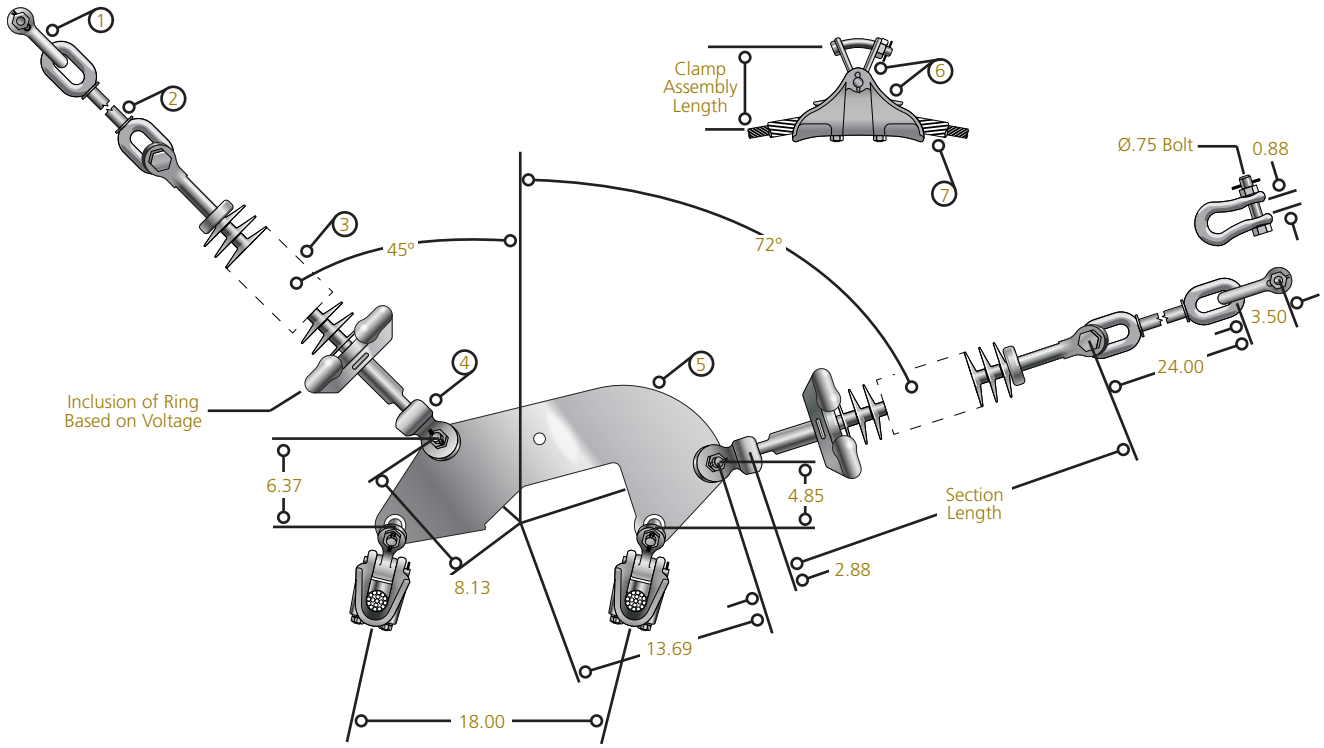
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
138	S030043S2010	54.9	30,000	—
161	S030056S2010	67.8	30,000	—
230	S030073S201A	85.1	30,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

Angle Suspension, 2-Bundle Conductor

Angle V 50k lb Assembly, 138kV - 230kV

ASSEMBLY
TAA22



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50BNK	Anchor Shackle	2	Forged Steel	60,000
2	HOO5024	Oval Eye Ext. Link (24")	2	Forged Steel	60,000
3	See Chart	Insulator, ANSI 52-11	2	Polymer	—
4	SYC50	Socket Y-Clevis	2	Ductile Iron	50,000
5	945834005	Yoke Plate	1	Steel	50,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	2	Aluminum	—
7	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

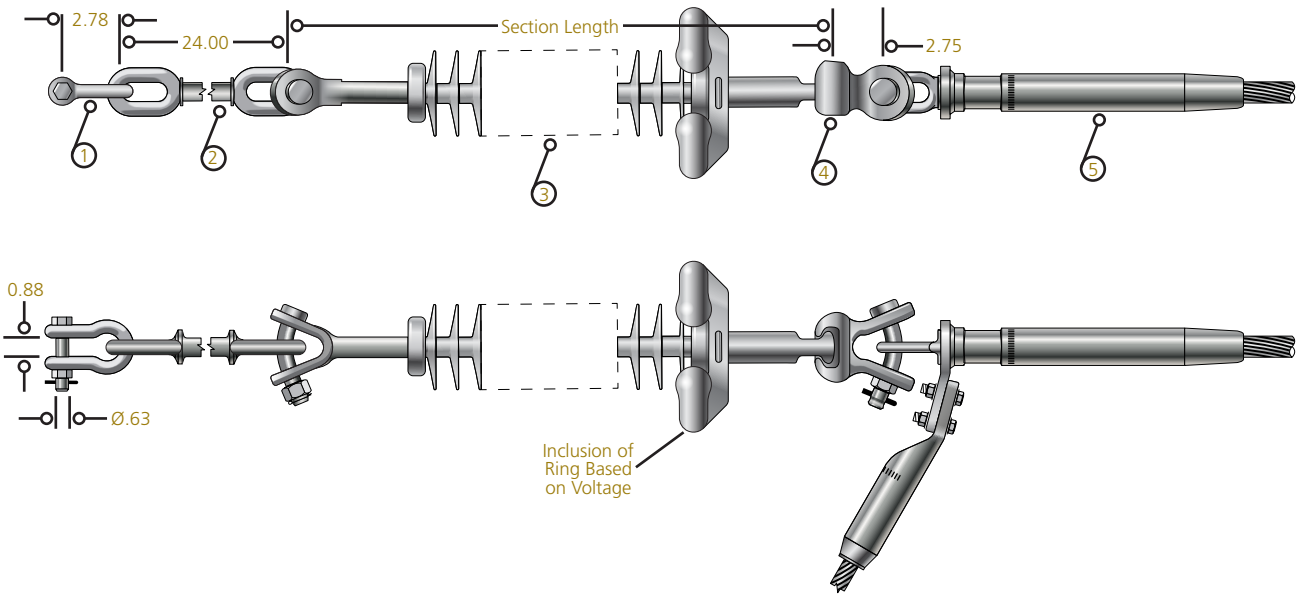
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
138	S050043S2010	57.3	50,000	—
161	S050056S2010	70.3	50,000	—
230	S050073S201A	87.6	50,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

Deadend, Single Conductor

Single Insulator 30k lb Assembly, 69kV - 230kV

ASSEMBLY
TAD11



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	1	Forged Steel	30,000
2	HOO3024	Oval Eye Ext. Link (24")	1	Forged Steel	30,000
3	See Chart	Insulator, ANSI 52-5	1	Polymer	—
4	SYC30	Socket Y-Clevis	1	Ductile Iron	30,000
5	See Note 1	Compression Deadend w/Terminal	1	Aluminum	Full Tension

Typical Insulator Selection

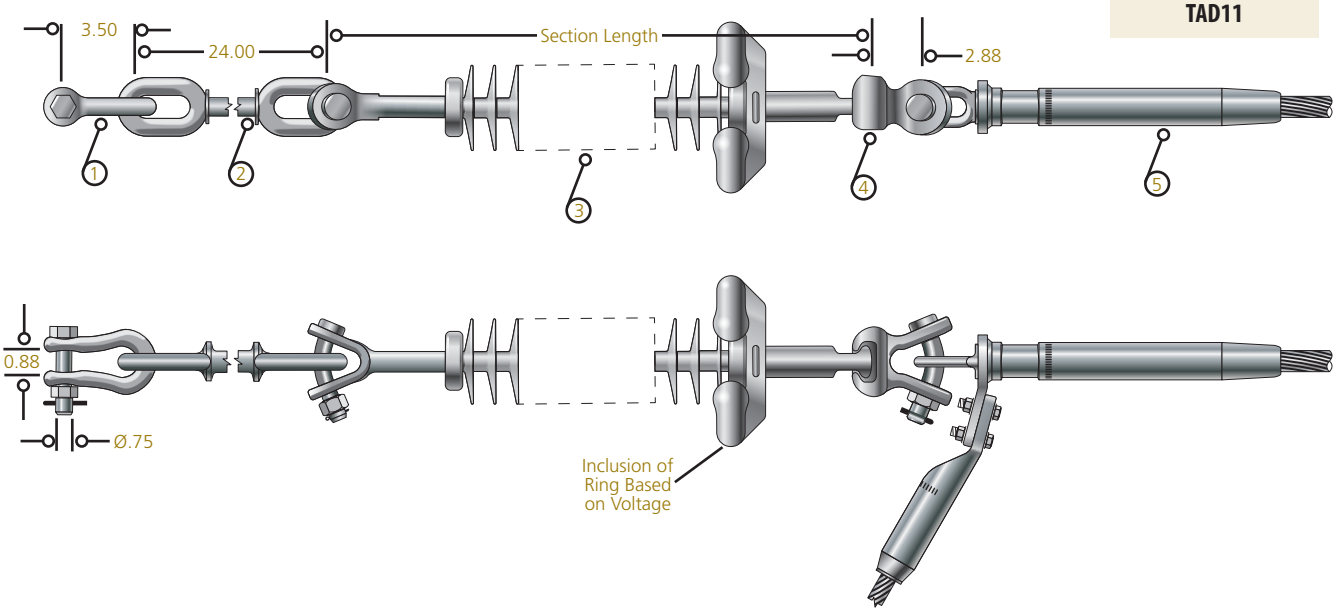
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
69	S030023S2010	35.4	30,000	—
115	S030036S20100	48.4	30,000	—
138	S030043S2010	54.9	30,000	—
161	S030056S2010	67.8	30,000	—
230	S030073S201A	85.1	30,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Compression Deadends section for standard conductor compression deadend options, See Compression Conventional (Two Die) System section for high temperature conductor compression deadend options.

Deadend, Single Conductor

Single Insulator 50k lb Assembly, 69kV - 230kV

ASSEMBLY
TAD11



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50BNK	Anchor Shackle	1	Forged Steel	60,000
2	HOO5024	Oval Eye Ext. Link (24")	1	Forged Steel	60,000
3	See Chart	Insulator, ANSI 52-11	1	Polymer	—
4	SYC50	Socket Y-Clevis	1	Ductile Iron	50,000
5	See Note 1	Compression Deadend w/Terminal	1	Aluminum	Full Tension

Typical Insulator Selection

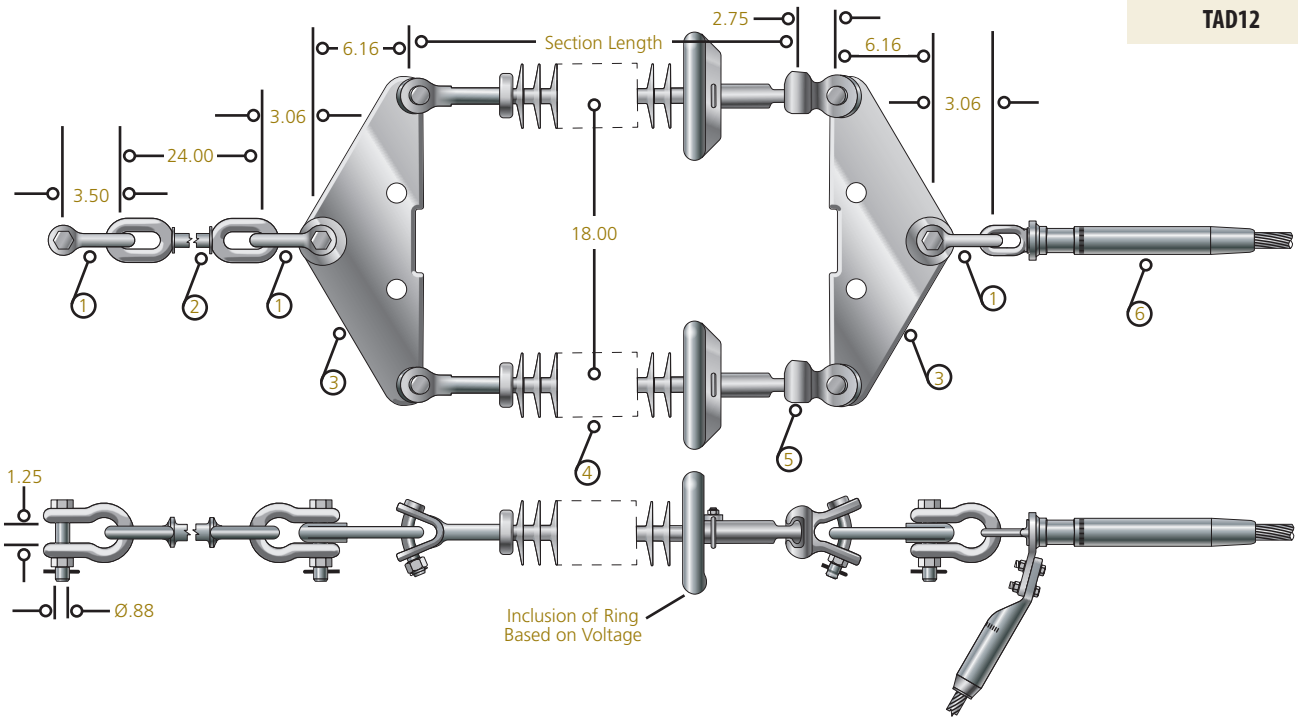
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
69	S050023S2010	37.9	50,000	—
115	S050036S2010	50.8	50,000	—
138	S050043S2010	57.3	50,000	—
161	S050056S2010	70.3	50,000	—
230	S050073S201A	87.6	50,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Compression Deadends for standard conductor compression deadend options, See Compression Conventional (Two Die) System section for high temperature conductor compression deadend options.

Deadend, Single Conductor

Double Insulator 30k lb Assembly, 69kV - 230kV

ASSEMBLY
TAD12



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50WBNK	Anchor Shackle	3	Forged Steel	60,000
2	HOO5024	Oval Eye Ext. Link (24")	1	Forged Steel	60,000
3	YPD60183771	Yoke Plate	2	Ductile Iron	60,000
4	See Chart	Insulator, ANSI 52-5	2	Polymer	—
5	SYC30	Socket Y-Clevis	2	Ductile Iron	30,000
6	See Note 1	Compression Deadend w/Terminal	1	Aluminum	Full Tension

Typical Insulator Selection

Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
69	S030023S2010	35.4	30,000	—
115	S030036S2010	48.4	30,000	—
138	S030043S2010	54.9	30,000	—
161	S030056S2010	67.8	30,000	—
230	S030073S201A	85.1	30,000	8" Line End

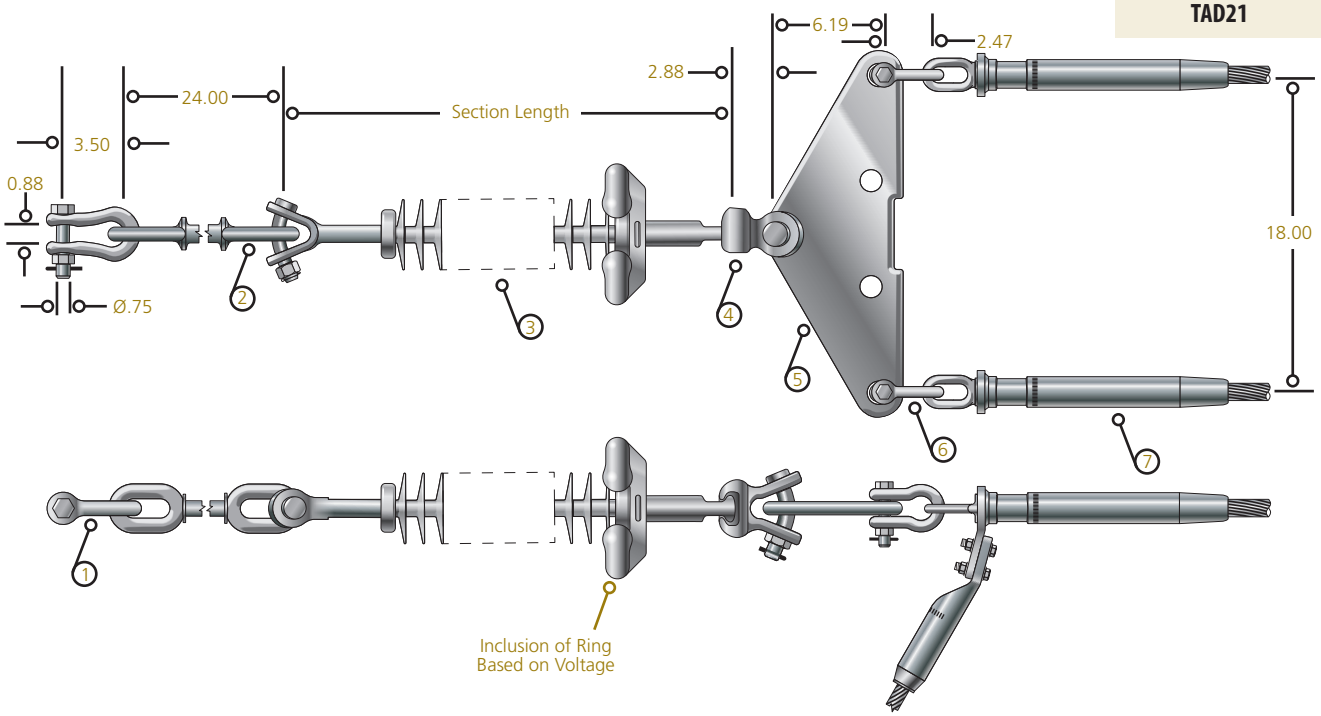
NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Compression Deadends section for standard conductor compression deadend options, See Compression Conventional (Two Die) System section for high temperature conductor compression deadend options.

Deadend, 2-Bundle Conductor

Single Insulator 50k lb Assembly, 138kV - 230kV

ASSEMBLY

TAD21



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50BNK	Anchor Shackle	1	Forged Steel	60,000
2	HOO5024	Oval Eye Ext. Link (24")	1	Forged Steel	60,000
3	See Chart	Insulator, ANSI 52-11	1	Polymer	—
4	SYC50	Socket Y-Clevis	1	Ductile Iron	50,000
5	YPD50185491	Yoke Plate	1	Ductile Iron	50,000
6	AS25LBNK	Anchor Shackle	2	Forged Steel	30,000
7	See Note 1	Compression Deadend w/Terminal	2	Aluminum	Full Tension

Typical Insulator Selection

Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
138	S050043S2010	57.3	50,000	—
161	S050056S2010	70.3	50,000	—
230	S050073S201A	87.6	50,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.

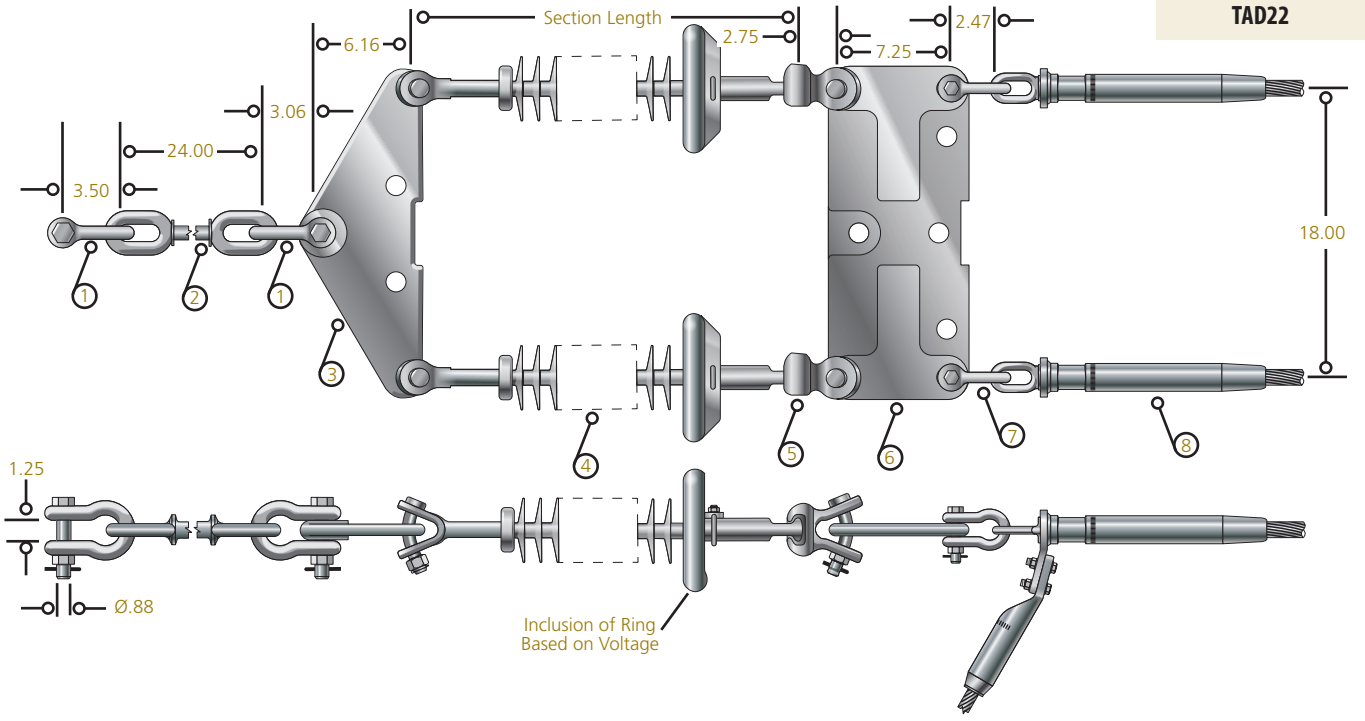
(1) See Compression Deadends section for standard conductor compression deadend options, See Compression Conventional (Two Die) System section for high temperature conductor compression deadend options.

Deadend, 2-Bundle Conductor

Double Insulator 30k lb Assembly, 138kV - 230kV

ASSEMBLY

TAD22



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50WBNK	Anchor Shackle	2	Forged Steel	60,000
2	HOO5024	Oval Eye Ext. Link (24")	1	Forged Steel	60,000
3	YPD60183771	Yoke Plate	1	Ductile Iron	60,000
4	See Chart	Insulator, ANSI 52-5	2	Polymer	—
5	SYC30	Socket Y-Clevis	2	Ductile Iron	30,000
6	YPR30187221	Yoke Plate	1	Ductile Iron	30,000
7	AS25LBNK	Anchor Shackle	2	Forged Steel	30,000
8	See Note 1	Compression Deadend w/Terminal	2	Aluminum	Full Tension

Typical Insulator Selection

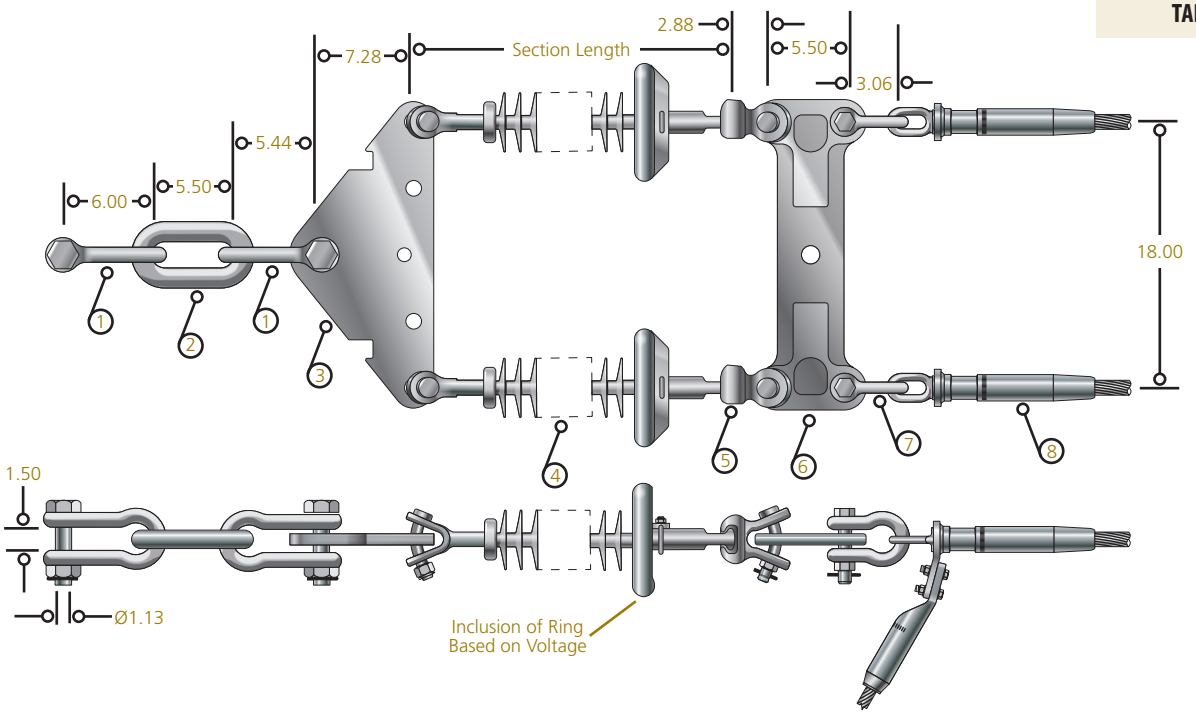
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
138	S030043S2010	54.9	30,000	—
161	S030056S2010	67.8	30,000	—
230	S030073S201A	85.1	30,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Compression Deadends section for standard conductor compression deadend options, See Compression Conventional (Two Die) System section for high temperature conductor compression deadend options.

Deadend, 2-Bundle Conductor

Double Insulator 50k lb Assembly, 138kV - 230kV

ASSEMBLY
TAD22



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	974153001	Anchor Shackle	2	Forged Steel	120,000
2	LK120CVN	Chain Link	1	Forged Steel	150,000
3	947604006	Yoke Plate	1	Galvanized Steel	100,000
4	See Chart	Insulator, ANSI 52-11	2	Polymer	50,000
5	SYC50	Socket Y-Clevis	2	Ductile Iron	50,000
6	YPR50190508	Yoke Plate	1	Ductile Iron	50,000
7	AS50WBNK	Anchor Shackle	2	Forged Steel	60,000
8	See Note 1	Compression Deadend w/Terminal	2	Aluminum	Full Tension

Typical Insulator Selection

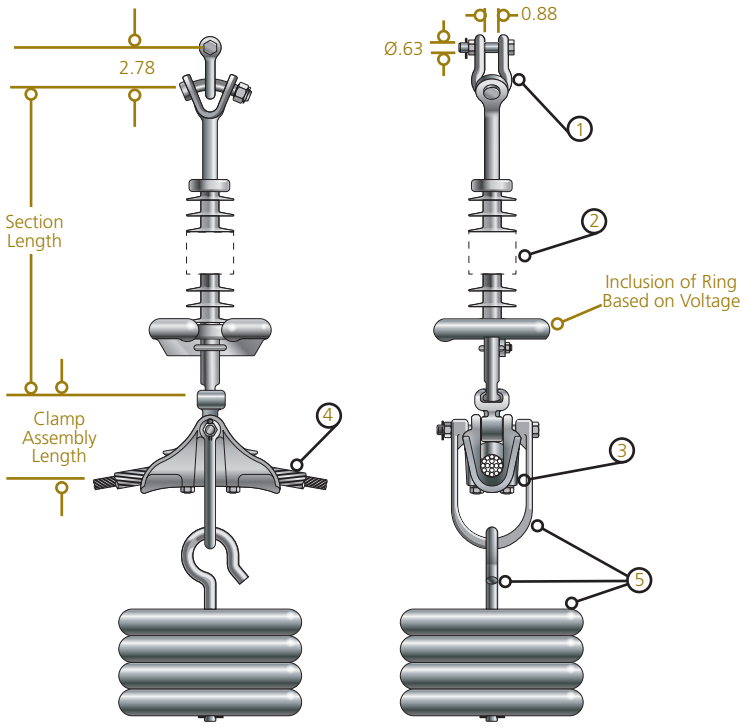
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
138	S050043S2010	57.3	50,000	—
161	S050056S2010	70.3	50,000	—
230	S050073S201A	87.6	50,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Compression Deadends for standard conductor compression deadend options, See Compression Conventional (Two Die) System section for high temperature conductor compression deadend options.

Jumper Suspension, Single Conductor

Single Insulator with Weights 30k lb Assembly, 69kV - 230kV

ASSEMBLY
TAJ11



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	1	Forged Steel	30,000
2	See Chart	Insulator, ANSI 52-5	1	Polymer	—
3	See Note 1	Suspension Clamp w/Socket	1	Aluminum	—
4	See Note 2	Armor Rods	1	Aluminum	—
5	See Note 3	Hold Down Shackle w/Weights	1	Ductile Iron	10,000

Typical Insulator Selection

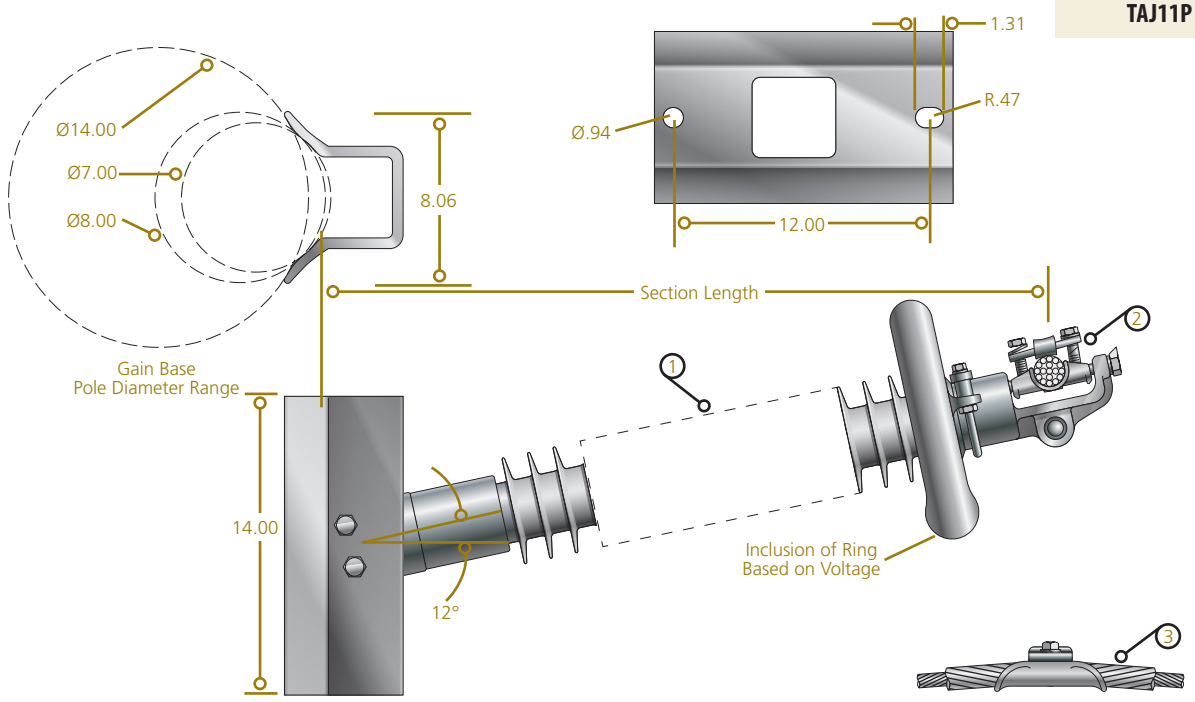
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
69	S030023S2010	35.4	30,000	—
115	S030036S2010	48.4	30,000	—
138	S030043S2010	54.9	30,000	—
161	S030056S2010	67.8	30,000	—
230	S030073S201A	85.1	30,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
Contact HPS for armor rod recommendations.
(2) See Armor Rod section for rod set based on conductor application.
(3) See Hardware Fittings section for hold down shackle, weights and hardware options.

Jumper Support, Single Conductor

2.5" Post (Horizontal) Insulator Assembly, 69kV - 230kV

ASSEMBLY
TAJ11P



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	See Chart	Insulator Post	1	Polymer	—
2	See Note 1	Trunnion Clamp	1	Aluminum	2,800
3	See Note 2	Armor Rods	1	Aluminum	—

Typical Insulator Selection

Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	RCL lb	Corona Ring
69	P250024S1020	37.7	2,500	—
115	P250036S1020	49.5	1,880	—
138	P250043S1020	56.6	1,600	—
161	P250058S1020	70.8	1,235	—
230	P250070S102A	82.6	1,040	12" Line End

NOTE: RCL is 50% of the ultimate cantilever load capacity.
Maximum design tension load rating is 2,500 lb.
For quoting/ordering instructions, see Assemblies section.

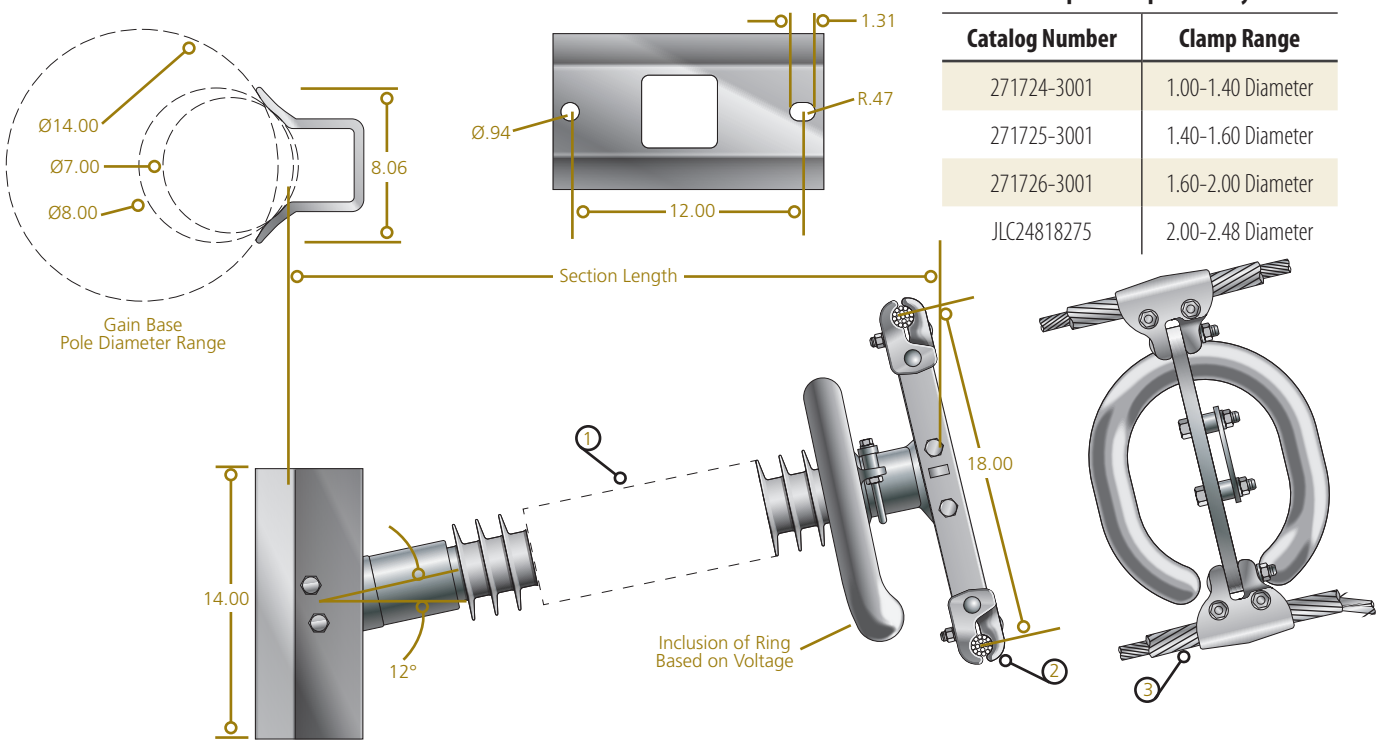
(1) See Suspension Clamp section for standard and high temperature conductor trunnion clamp options.

(2) See Armor Rod section for rod set based on conductor application.

Jumper Support, 2-Bundle Conductor

2.5" Post (Horizontal) Insulator Assembly, 138kV - 230kV

ASSEMBLY
TAJ21P



Jumper Clamp Assembly

Catalog Number	Clamp Range
271724-3001	1.00-1.40 Diameter
271725-3001	1.40-1.60 Diameter
271726-3001	1.60-2.00 Diameter
JLC24818275	2.00-2.48 Diameter

Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	See Chart	Insulator, Post	1	Polymer	—
2	See Chart	Jumper Clamp Assembly	1	Steel/Aluminum	5,000
3	See Note 1	Armor Rods	2	Aluminum	—

Typical Insulator Selection

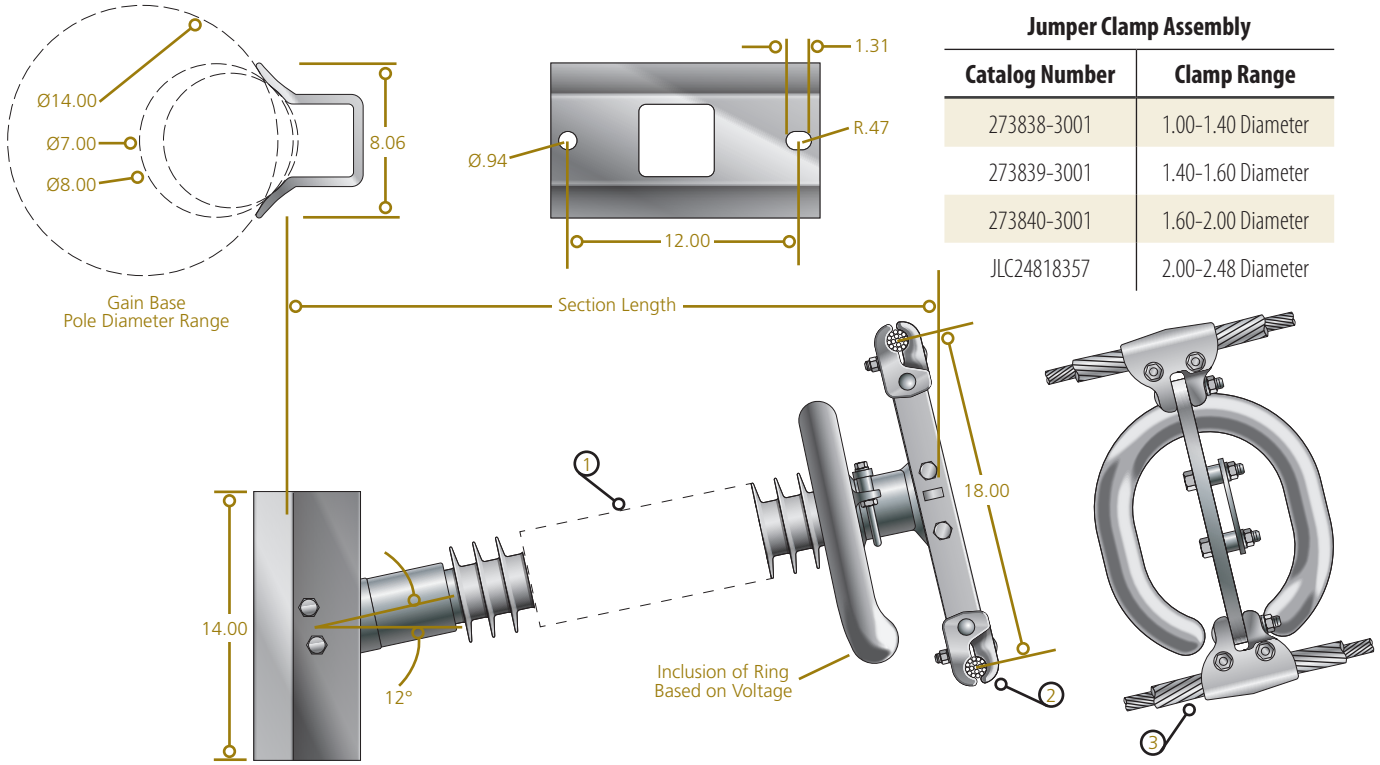
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	RCL lb	Corona Ring
138	P250043S0020	55.9	1,625	—
161	P250058S0020	70.1	1,250	—
230	P250070S002A	81.9	1,050	12" Line End

NOTE: RCL is 50% of the ultimate cantilever load capacity.
Maximum design tension load rating is 7,500 lb.
For quoting/ordering instructions, see Assemblies section.
(1) See Armor Rod section for rod set based on conductor application.

Jumper Support, 2-Bundle Conductor

3" Post (Horizontal) Insulator Assembly, 138kV - 230kV

ASSEMBLY
TAJ21P



Jumper Clamp Assembly

Catalog Number	Clamp Range
273838-3001	1.00-1.40 Diameter
273839-3001	1.40-1.60 Diameter
273840-3001	1.60-2.00 Diameter
JLC24818357	2.00-2.48 Diameter

Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	See Chart	Insulator, Post	1	Polymer	—
2	See Chart	Jumper Clamp Assembly	1	Steel/Aluminum	5,000
3	See Note 1	Armor Rods	2	Aluminum	—

Typical Insulator Selection

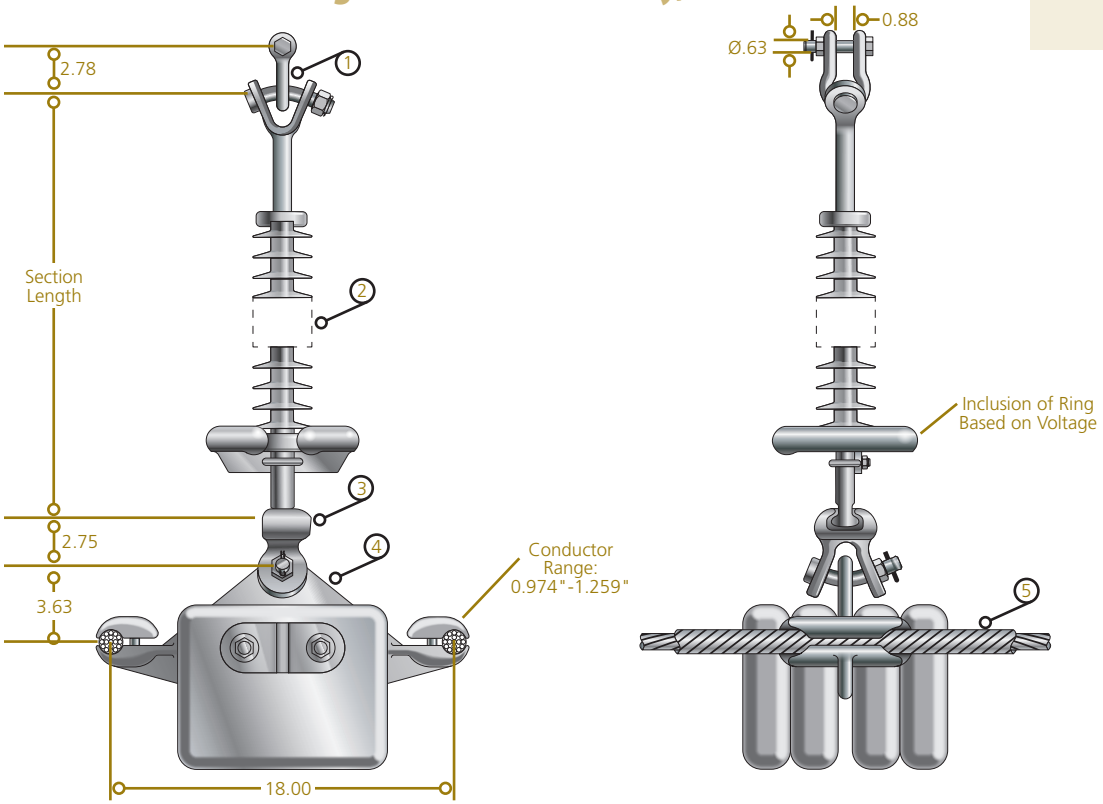
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	RCL lb	Corona Ring
138	P300047S0020	59.7	2,635	—
161	P300063S0020	75.0	2,020	—
230	P300074S002A	85.6	1,740	15" Line End

NOTE: RCL is 50% of the ultimate cantilever load capacity.
Maximum design tension load rating is 12,500 lb.
For quoting/ordering instructions, see Assemblies section.
(1) See Armor Rod section for rod set based on conductor application.

Jumper Support, 2-Bundle Conductor

Single Insulator with Weights 30k lb Assembly, 138kV - 230kV

ASSEMBLY
TAJ21



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	1	Forged Steel	30,000
2	See Chart	Insulator, ANSI 52-5	1	Polymer	—
3	SYC30	Socket Y-Clevis	1	Ductile Iron	30,000
4	YPJ21018215200 See Note 1	Jumper Yoke w/Weights	1	Aluminum	10,000
5	See Note 2	Armor Rods	1	Aluminum	—

Typical Insulator Selection

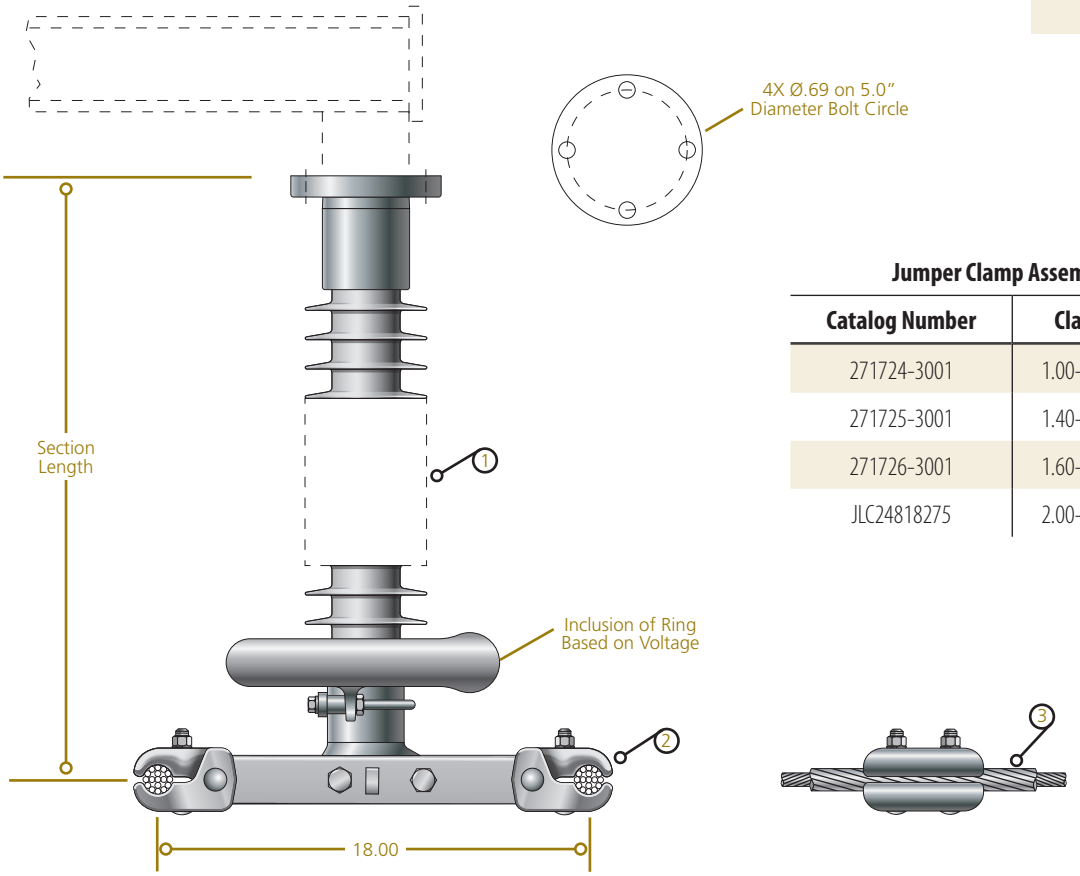
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
138	S030043S2010	54.9	30,000	—
161	S030056S2010	67.8	30,000	—
230	S030073S201A	85.1	30,000	8" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) For jumper yokes with other conductor ranges or different amounts of weight, please contact HPS.
(2) See Armor Rod section for rod set based on conductor application.

Jumper Support, 2-Bundle Conductor

2.5" Post (Vertical) Insulator Assembly, 138kV - 230kV

ASSEMBLY
TAJ21P



Jumper Clamp Assembly

Catalog Number	Clamp Range
271724-3001	1.00-1.40 Diameter
271725-3001	1.40-1.60 Diameter
271726-3001	1.60-2.00 Diameter
JLC24818275	2.00-2.48 Diameter

Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	See Chart	Insulator Post	1	Polymer	—
2	See Chart	Jumper Clamp Assembly	1	Steel/ Aluminum	5,000
3	See Note 1	Armor Rods	2	Aluminum	—

Typical Insulator Selection

Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	RCL lb	Corona Ring
138	P250043S5300	53.2	1,625	—
161	P250058S5300	67.8	1,250	—
230	P250070S530A	79.8	1,050	12" Line End

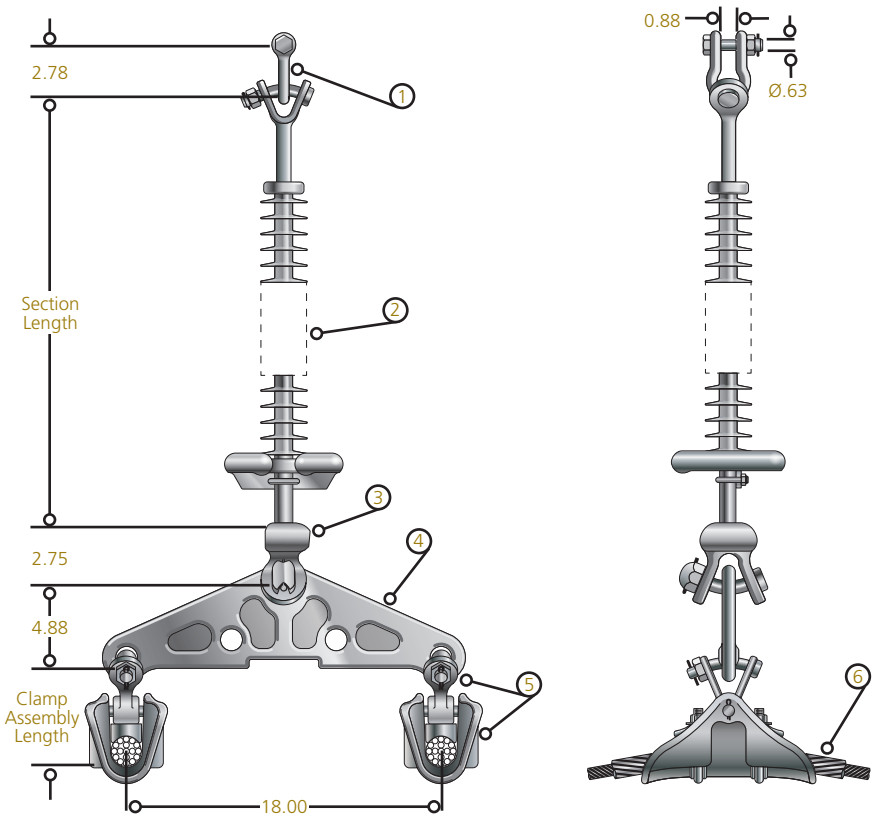
NOTE: RCL is 50% of the ultimate cantilever load capacity.
Maximum design tension load rating is 7,500 lb.
For quoting/ordering instructions, see Assemblies section.
(1) See Armor Rod section for rod set based on conductor application.

EHV Tangent Suspension, 2-Bundle Conductor

Single-String 30k lb Assembly, 230kV - 345kV

ASSEMBLY

TAT21



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	1	Forged Steel	30,000
2	See Chart	Insulator, ANSI 52-5	1	Polymer	—
3	SYC30SN	Socket Y-Clevis	1	Ductile Iron	30,000
4	YPD30184373	Yoke Plate	1	Ductile Iron	30,000
5	See Note 1	Suspension Clamp w/Y-Clevis Eye	2	Aluminum	—
6	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

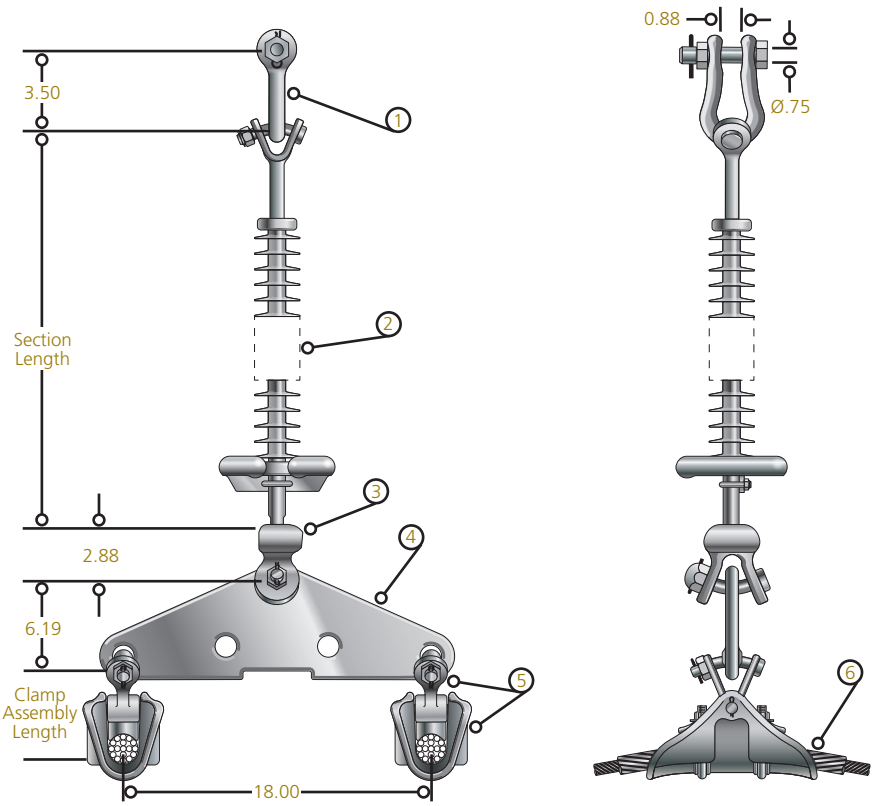
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
230	S030073S201A	85.1	30,000	8" Line End
345	S030103S201B	115.3	30,000	12" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Tangent Suspension, 2-Bundle Conductor

Single-String 50k lb Assembly, 230kV - 345kV

ASSEMBLY
TAT21



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50BNK	Anchor Shackle	1	Forged Steel	60,000
2	See Chart	Insulator, ANSI 52-11	1	Polymer	—
3	SYC50SN	Socket Y-Clevis	1	Ductile Iron	50,000
4	YPD50185491	Yoke Plate	1	Ductile Iron	50,000
5	See Note 1	Suspension Clamp w/Y-Clevis Eye	2	Aluminum	—
6	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

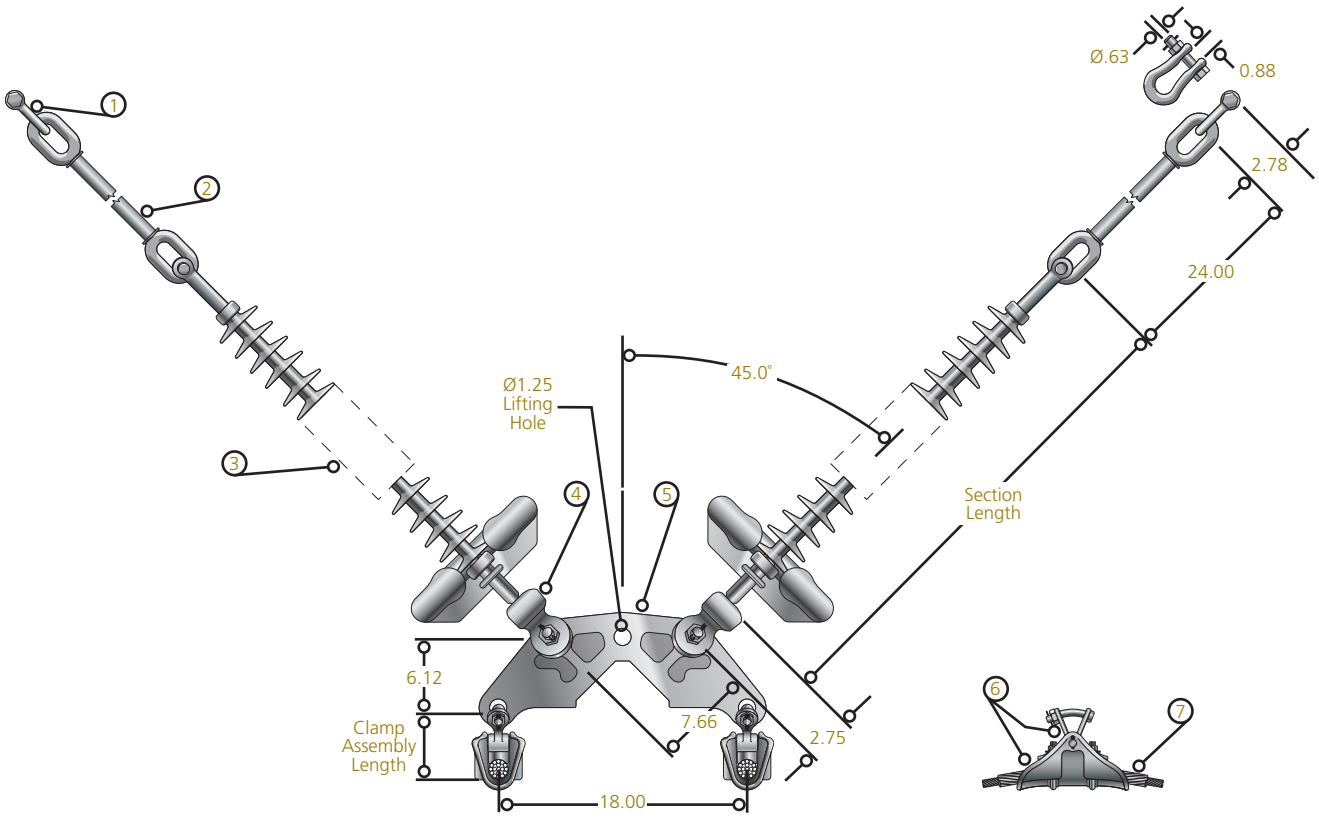
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
230	S050073S201A	87.6	50,000	8″ Line End
345	S050103S201B	117.8	50,000	12″ Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Tangent Suspension, 2-Bundle Conductor

V-String 30k lb Assembly, 230kV - 345kV

ASSEMBLY
TAT22



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	2	Forged Steel	30,000
2	HOO3024	Oval Eye Ext. Link (24")	2	Forged Steel	30,000
3	See Chart	Insulator, ANSI 52-5	2	Polymer	—
4	SYC30SN	Socket Y-Clevis	2	Ductile Iron	30,000
5	YPV30172592	Yoke Plate	1	Ductile Iron	30,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	2	Aluminum	—
7	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

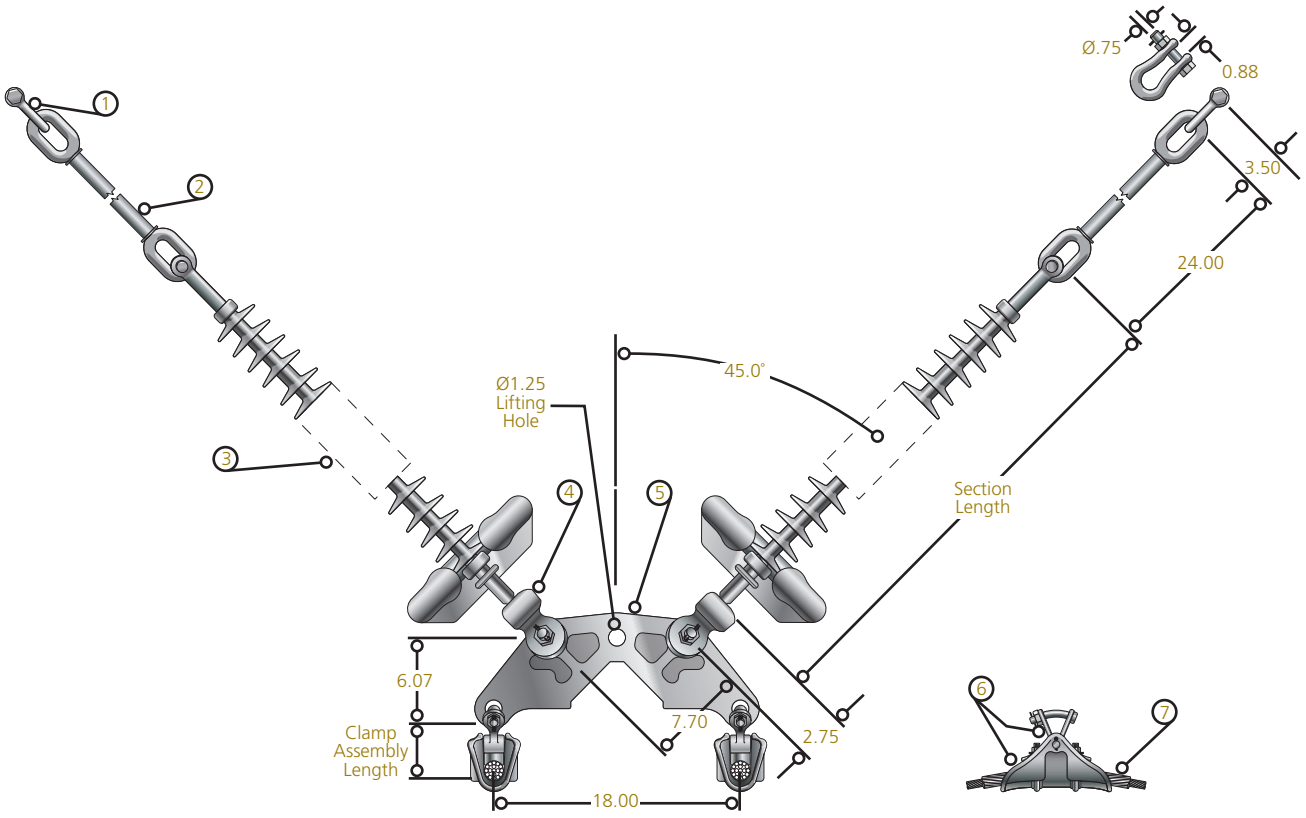
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
230	S030073S201A	85.1	30,000	8" Line End
345	S030103S201B	115.3	30,000	12" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Tangent Suspension, 2-Bundle Conductor

V-String 50k lb Assembly, 230kV - 345kV

ASSEMBLY
TAT22



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50BNK	Anchor Shackle	2	Forged Steel	60,000
2	HOO5024	Oval Eye Ext. Link (24")	2	Forged Steel	60,000
3	See Chart	Insulator, ANSI 52-11	2	Polymer	—
4	SYC50SN	Socket Y-Clevis	2	Ductile Iron	50,000
5	YPV5019011	Yoke Plate	1	Ductile Iron	50,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	2	Aluminum	—
7	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

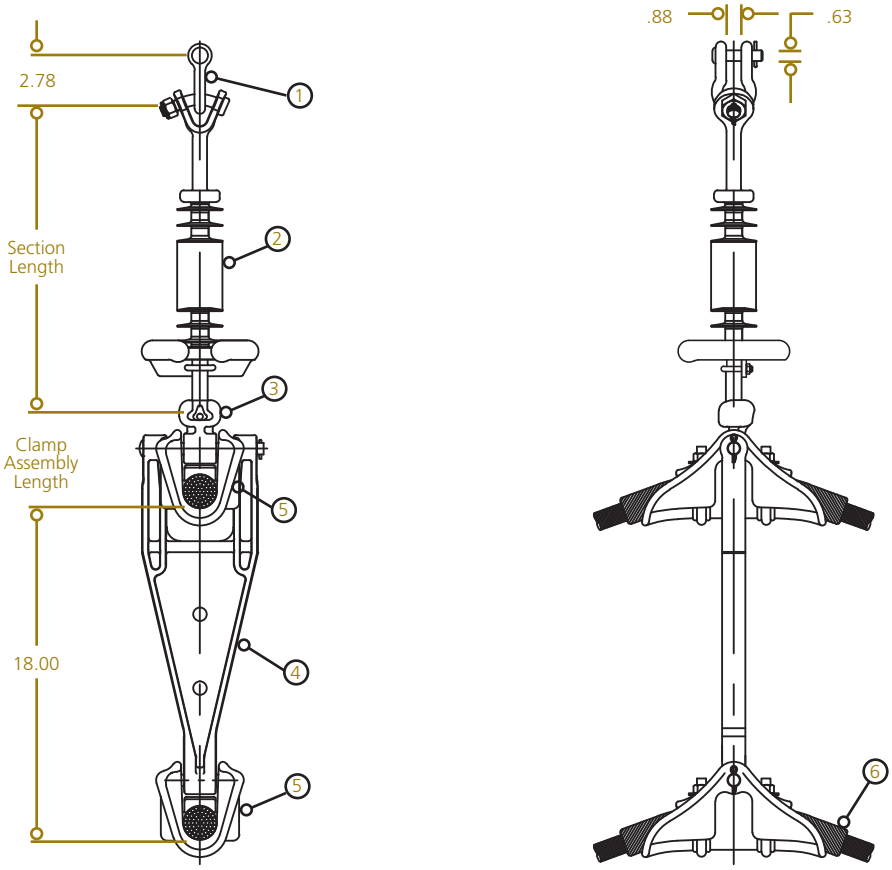
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
230	S050073S201A	87.6	50,000	8"Line End
345	S050103S201B	117.8	50,000	12"Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Tangent Suspension, 2-Bundle Vertical Conductor

Single-String 30k lb Assembly, 230kV - 345kV

ASSEMBLY
TAT21W



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	1	Forged Steel	30,000
2	See Chart	Insulator, ANSI 52-5	1	Polymer	—
3	SA16	Socket Eye	1	Ductile Iron	30,000
4	YPW3018218	Yoke, Vertical Bungling	1	Aluminum	30,000
5	See Note 1	Suspension Clamp	2	Aluminum	—
6	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

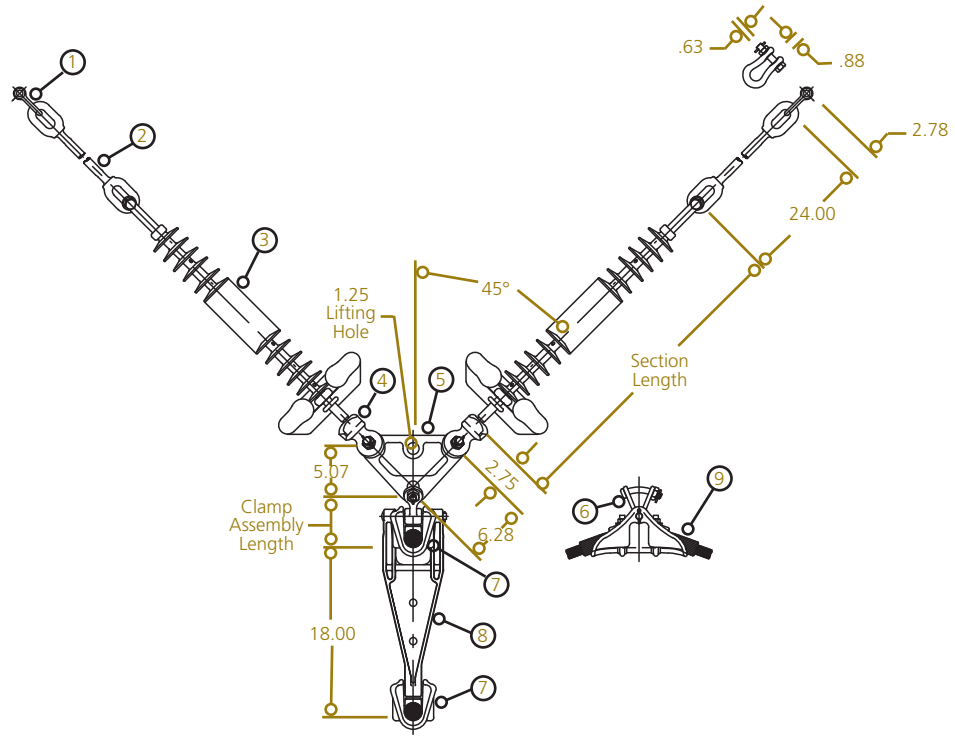
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
230	S030073S201A	85.1	30,000	8″ Line End
345	S030103S201B	115.3	30,000	12″ Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Tangent Suspension, Double Conductor

V-String 30k lb Assembly, 230kV - 345kV

ASSEMBLY
TAT22W



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	2	Forged Steel	30,000
2	HOO3024	Oval Eye Ext. Link (24")	2	Forged Steel	30,000
3	See Chart	Insulator, ANSI 52-5	2	Polymer	—
4	SYC30SN	Socket Y-Clevis	2	Ductile Iron	30,000
5	YPD5024685	Yoke Plate	1	Ductile Iron	50,000
6	YCS1690	Y-Clevis Eye	1	Ductile Iron	30,000
7	See Note 1	Suspension Clamp	2	Aluminum	—
8	YPW3018218	Yoke, Vertical Bundling	1	Aluminum	30,000
9	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

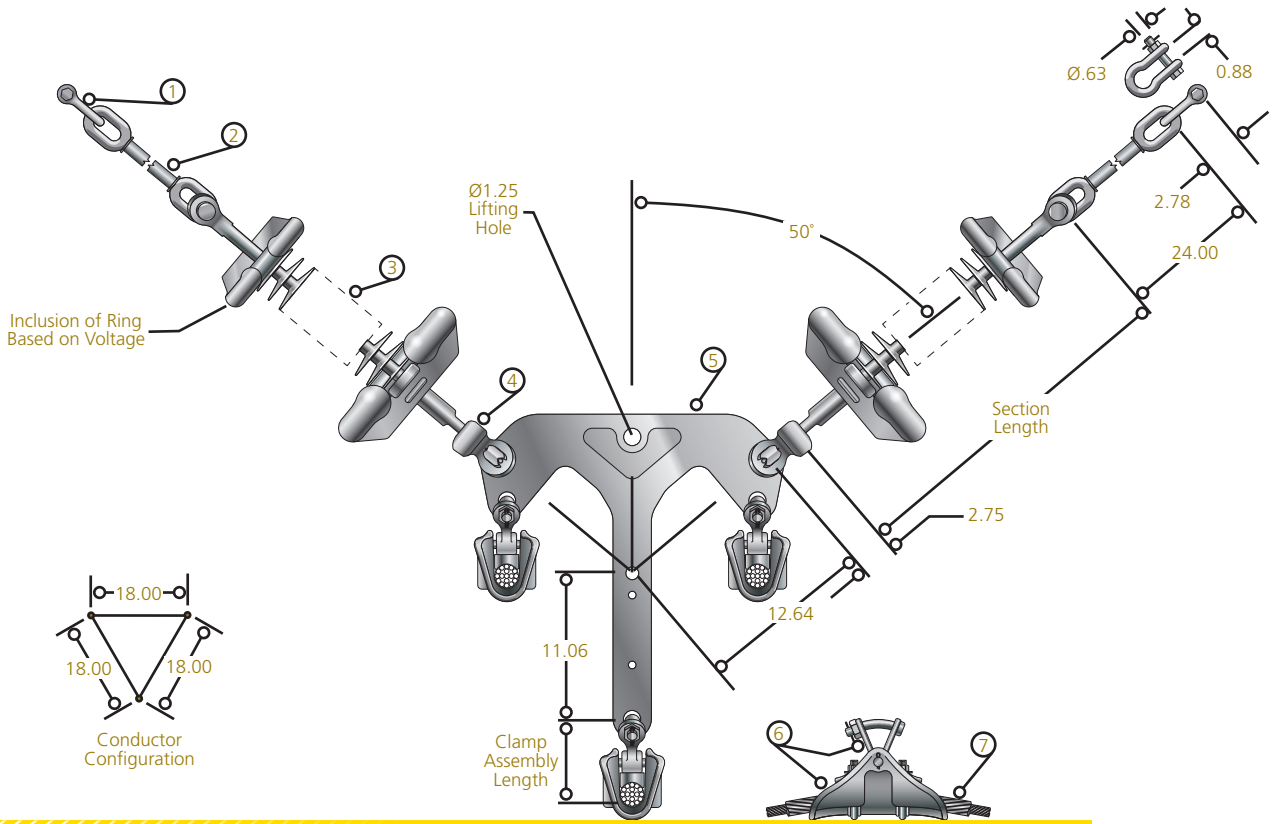
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
230	S030073S201A	85.1	30,000	8" Line End
345	S030103S201B	115.3	30,000	12" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Tangent Suspension, 3-Bundle Conductor

V-String 30k lb Assembly, 345kV - 500kV

ASSEMBLY
TAT32



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	2	Forged Steel	30,000
2	HOO3024	Oval Eye Ext. Link (24")	2	Forged Steel	30,000
3	See Chart	Insulator, ANSI 52-5	2	Polymer	—
4	SYC30SN	Socket Y-Clevis	2	Ductile Iron	30,000
5	YPT40236673	Yoke Plate	1	Ductile Iron	40,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	3	Aluminum	—
7	See Note 2	Armor Rods	3	Aluminum	—

Typical Insulator Selection

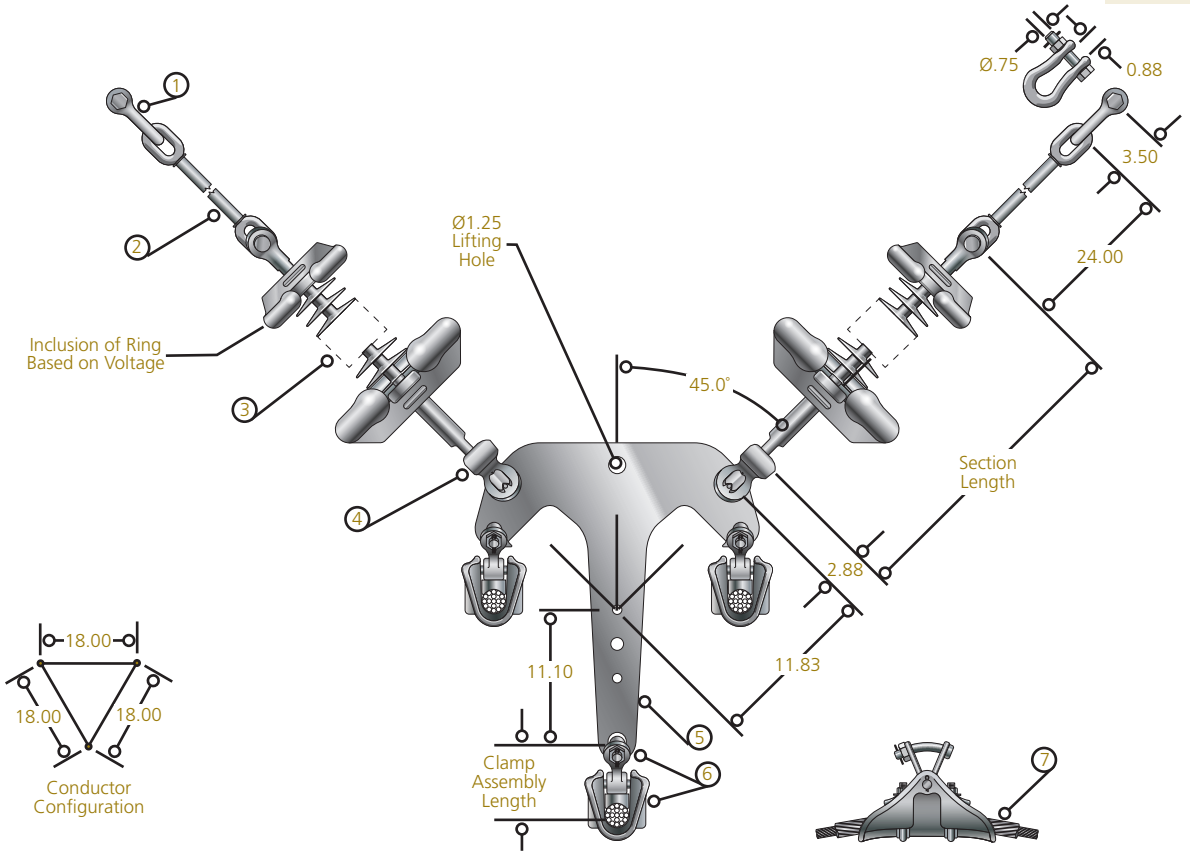
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
345	S030103S201B	115.3	50,000	12" Line End
500	S030155S201D	167.2	50,000	15" Line End 8" Ground End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Tangent Suspension, 3-Bundle Conductor

V-String 50k lb Assembly, 345kV - 500kV

ASSEMBLY
TAT32



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50BNK	Anchor Shackle	2	Forged Steel	60,000
2	HOO5024	Oval Eye Ext. Link (24")	2	Forged Steel	60,000
3	See Chart	Insulator, ANSI 52-11	2	Polymer	—
4	SYC50SN	Socket Y-Clevis	2	Ductile Iron	50,000
5	YPT5012512	Yoke Plate	1	Galvanized Steel	50,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	3	Aluminum	—
7	See Note 2	Armor Rods	3	Aluminum	—

Typical Insulator Selection

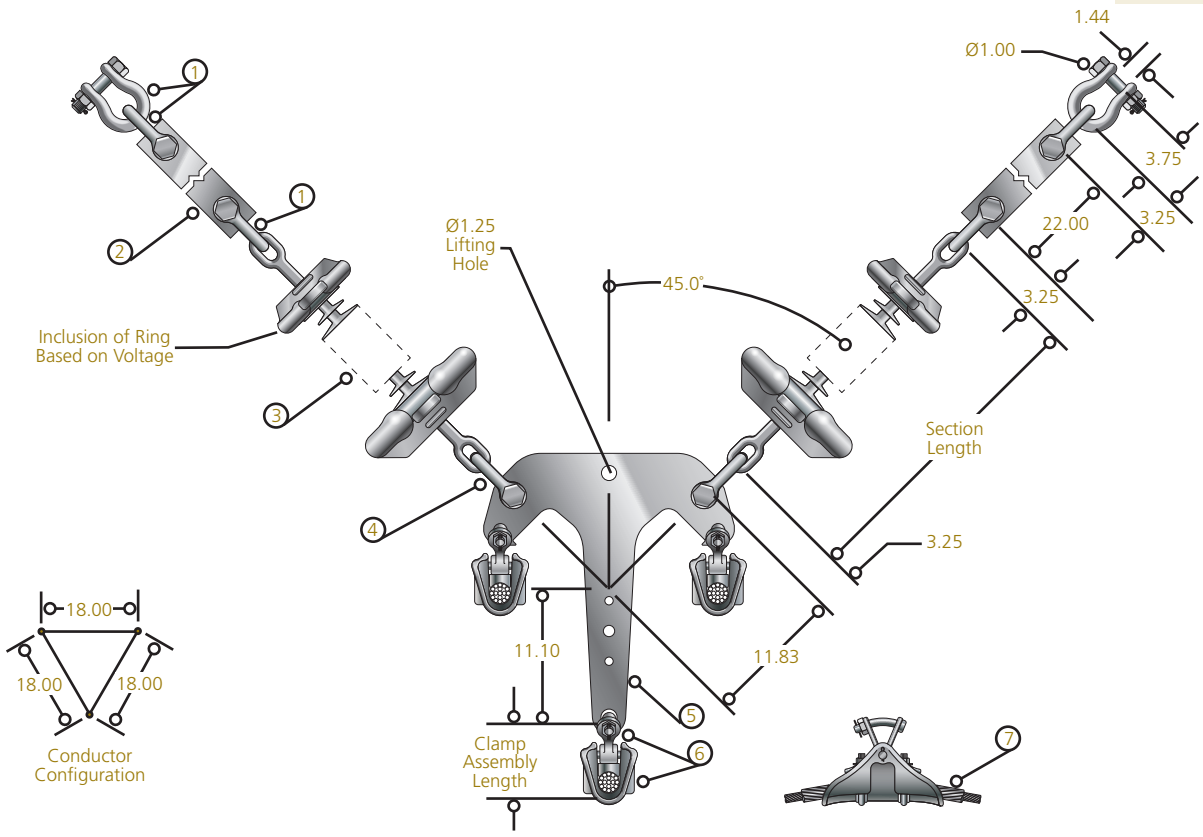
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
345	S050103S201B	117.8	50,000	12" Line End
500	S050155S201D	169.6	50,000	15" Line End 8" Ground End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Tangent Suspension, 3-Bundle Conductor

V-String 80k lb Assembly, 345kV - 500kV

ASSEMBLY
TAT32



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS60BNK	Anchor Shackle	6	Forged Steel	80,000
2	ES80781921	Extension Strap (21")	2	Galvanized Steel	80,000
3	See Chart	Insulator, Eye-Eye	2	Polymer	—
4	AS60BNKSN	Anchor Shackle	2	Forged Steel	80,000
5	YPT8013055	Yoke Plate	1	Galvanized Steel	80,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	3	Aluminum	—
7	See Note 2	Armor Rods	3	Aluminum	—

Typical Insulator Selection

Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
345	S080103H000B	124.5	80,000	12" Line End
500	S080155H000D	176.3	80,000	15" Line End 8" Ground End

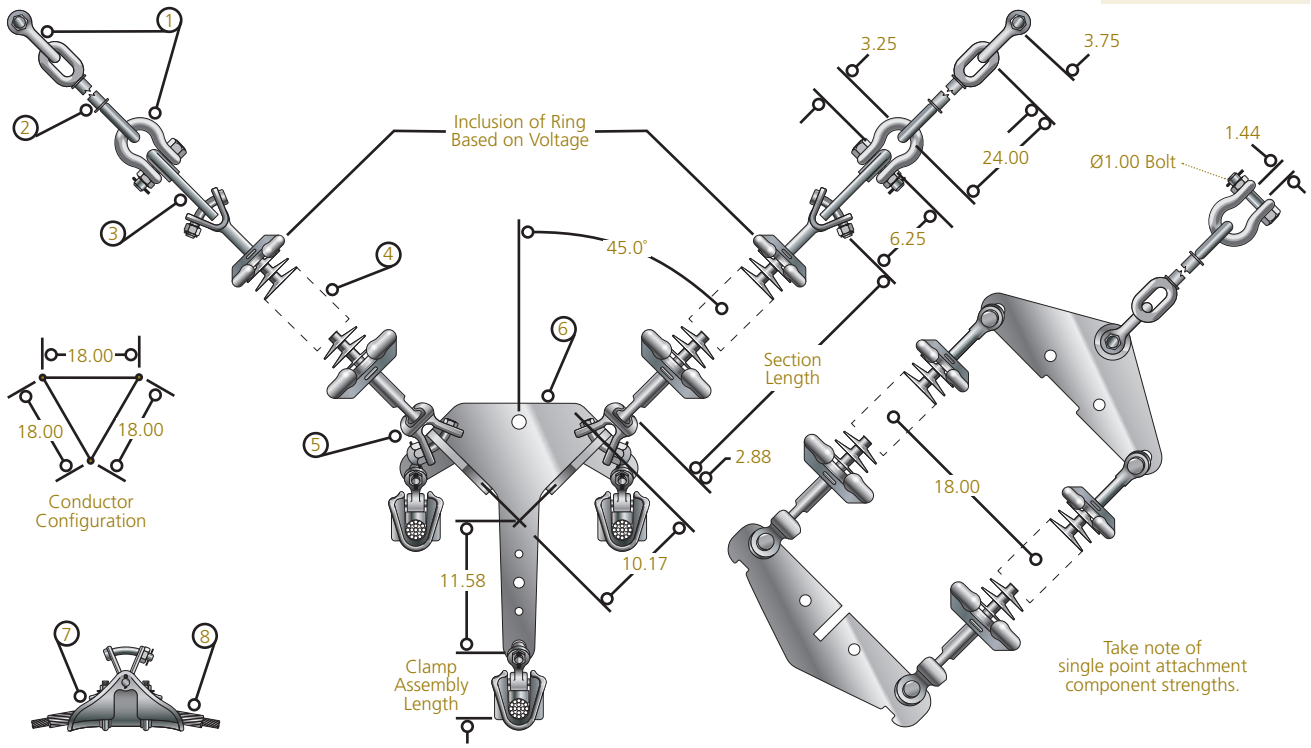
NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) Contact HPS for armor rod recommendations.
(3) See Suspension Insulator section for additional insulator options.

EHV Tangent Suspension, 3-Bundle Conductor

Double V-String 50k lb Assembly, 345kV - 500kV

ASSEMBLY

TAT34



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS60BNK	Anchor Shackle	4	Forged Steel	80,000
2	H00T8024	Oval Eye Ext. Link (24")	2	Forged Steel	80,000
3	YPD8018475	Yoke Plate	2	Ductile Iron	80,000
4	See Chart	Insulator, ANSI 52-11	4	Polymer	—
5	SYC50SN	Socket Y-Clevis	4	Ductile Iron	50,000
6	YPTB40114896	Yoke Plate	1	Galvanized Steel	40,000
7	See Note 1	Suspension Clamp w/Y-Clevis Eye	3	Aluminum	—
8	See Note 2	Armor Rods	3	Aluminum	—

Typical Insulator Selection

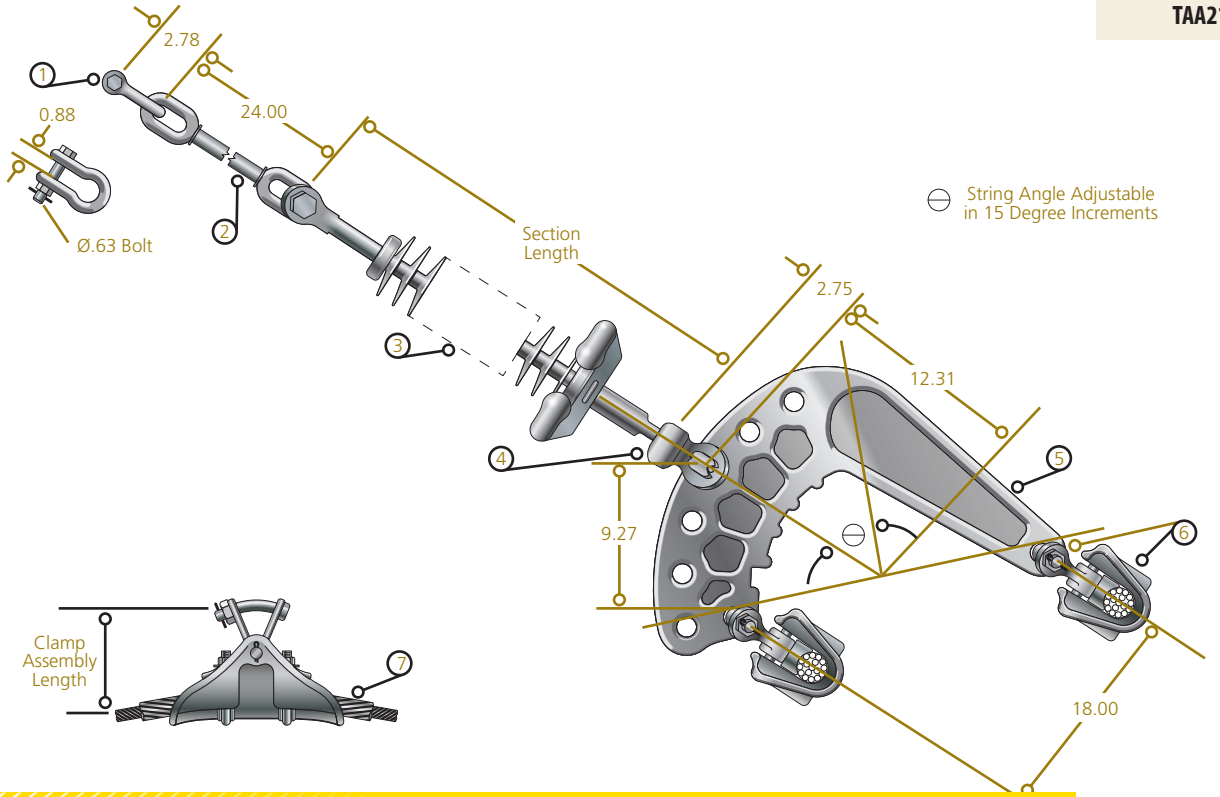
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
345	S050103S201B	117.8	50,000	12" Line End
500	S050155S201D	169.6	50,000	15" Line End 8" Ground End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Angle Suspension, 2-Bundle Conductor

Running Angle 30k lb Assembly, 230kV - 345kV

ASSEMBLY
TAA21



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	1	Forged Steel	30,000
2	HOO3024	Oval Eye Ext. Link (24")	1	Forged Steel	30,000
3	See Chart	Insulator, ANSI 52-5	1	Polymer	—
4	SYC30SN	Socket Y-Clevis	1	Ductile Iron	30,000
5	YPC5026001	Yoke Plate	1	Ductile Iron	50,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	2	Aluminum	—
7	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

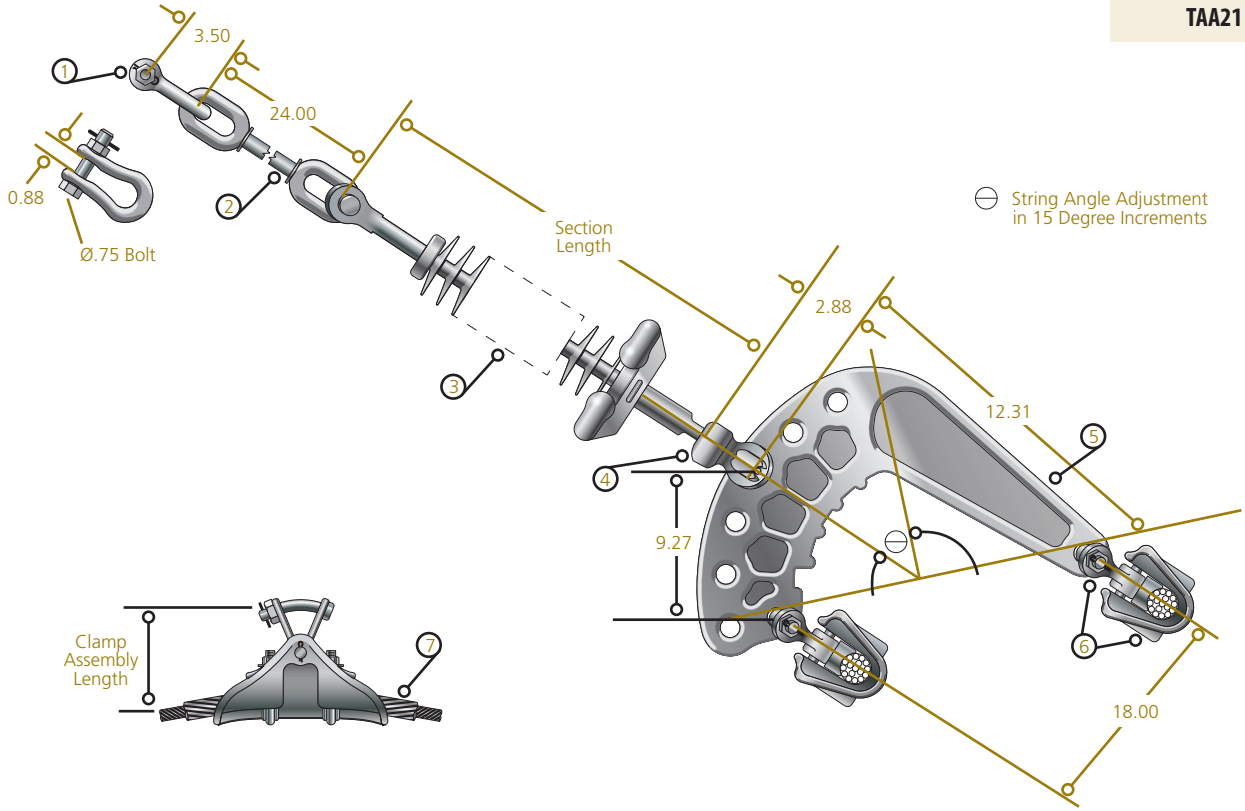
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
230	S030073S201A	85.1	30,000	8" Line End
345	S030103S201B	115.3	30,000	12" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Angle Suspension, 2-Bundle Conductor

Running Angle 50k lb Assembly, 230kV - 345kV

ASSEMBLY
TAA21



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50BNK	Anchor Shackle	1	Forged Steel	60,000
2	HOO5024	Oval Eye Ext. Link (24")	1	Forged Steel	60,000
3	See Chart	Insulator, ANSI 52-11	1	Polymer	—
4	SYC50SN	Socket Y-Clevis	1	Ductile Iron	50,000
5	YPC5026001	Yoke Plate	1	Ductile Iron	50,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	2	Aluminum	—
7	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

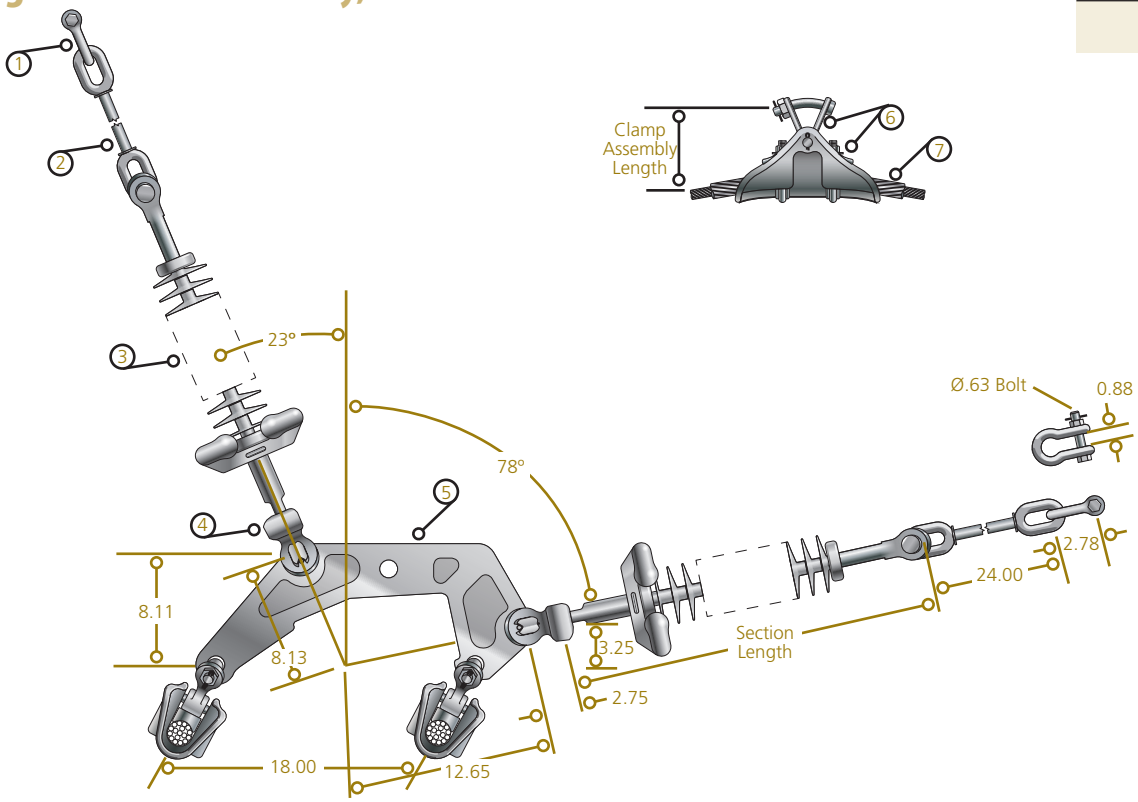
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
230	S050073S201A	87.6	50,000	8" Line End
345	S050103S201B	117.8	50,000	12" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Angle Suspension, 2-Bundle Conductor

Angle V 30k lb Assembly, 230kV - 345kV

ASSEMBLY
TAA22



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	2	Forged Steel	30,000
2	HOO3024	Oval Eye Ext. Link (24")	2	Forged Steel	30,000
3	See Chart	Insulator, ANSI 52-5	2	Polymer	—
4	SYC30SN	Socket Y-Clevis	2	Ductile Iron	30,000
5	YPC30174241	Yoke Plate	1	Ductile Iron	30,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	2	Aluminum	—
7	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

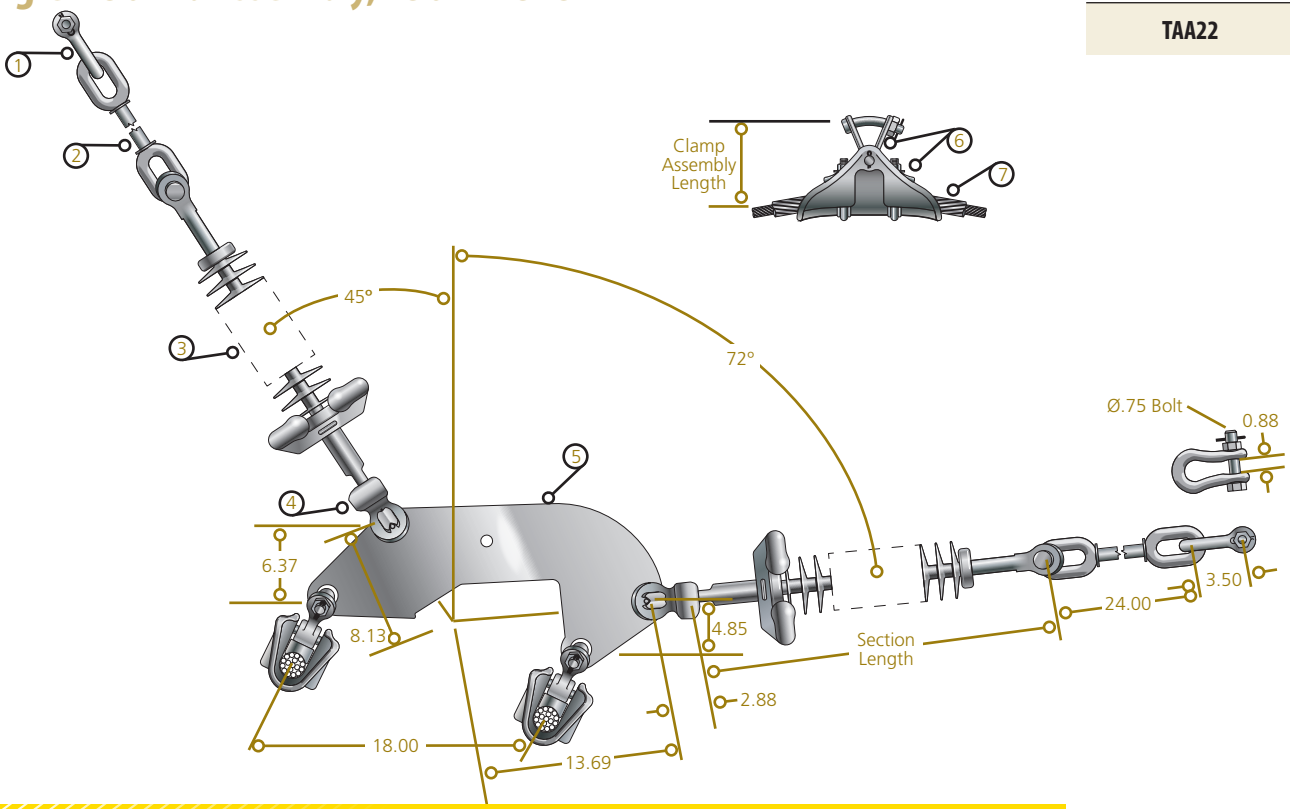
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
230	S030073S201A	85.1	30,000	8" Line End
345	S030103S201B	115.3	30,000	12" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Angle Suspension, 2-Bundle Conductor

Angle V 50k lb Assembly, 230kV - 345kV

ASSEMBLY
TAA22



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50BNK	Anchor Shackle	2	Forged Steel	60,000
2	HOO5024	Oval Eye Ext. Link (24")	2	Forged Steel	60,000
3	See Chart	Insulator, ANSI 52-11	2	Polymer	—
4	SYC50SN	Socket Y-Clevis	2	Ductile Iron	50,000
5	945834005	Yoke Plate	1	Galvanized Steel	50,000
6	See Note 1	Suspension Clamp w/Y-Clevis Eye	2	Aluminum	—
7	See Note 2	Armor Rods	2	Aluminum	—

Typical Insulator Selection

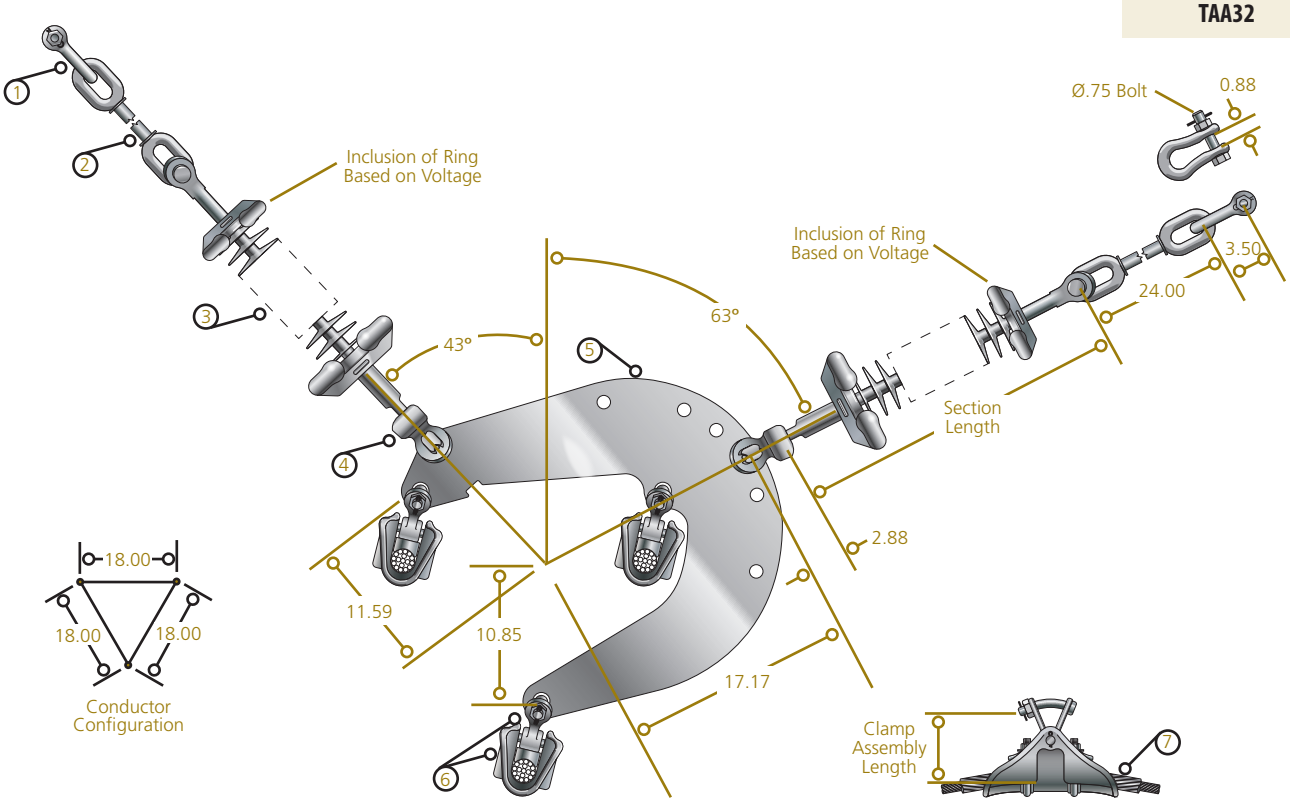
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
230	S050073S201A	87.6	50,000	8" Line End
345	S050103S201B	117.8	50,000	12" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Angle Suspension, 3-Bundle Conductor

Angle V 50k lb Assembly, 345kV - 500kV

ASSEMBLY
TAA32



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50BNK	Anchor Shackle	2	Forged Steel	60,000
2	HOO5024	Oval Eye Ext. Link (24")	2	Forged Steel	60,000
3	See Chart	Insulator, ANSI 52-11	2	Polymer	—
4	SYC50SN	Socket Y-Clevis	2	Ductile Iron	50,000
5	YPC5010833	Yoke Plate	1	Galvanized Steel	50,000
6	See Note 1	Suspension Clamp w/Y-Clevis	3	Aluminum	—
7	See Note 2	Armor Rods	3	Aluminum	—

Typical Insulator Selection

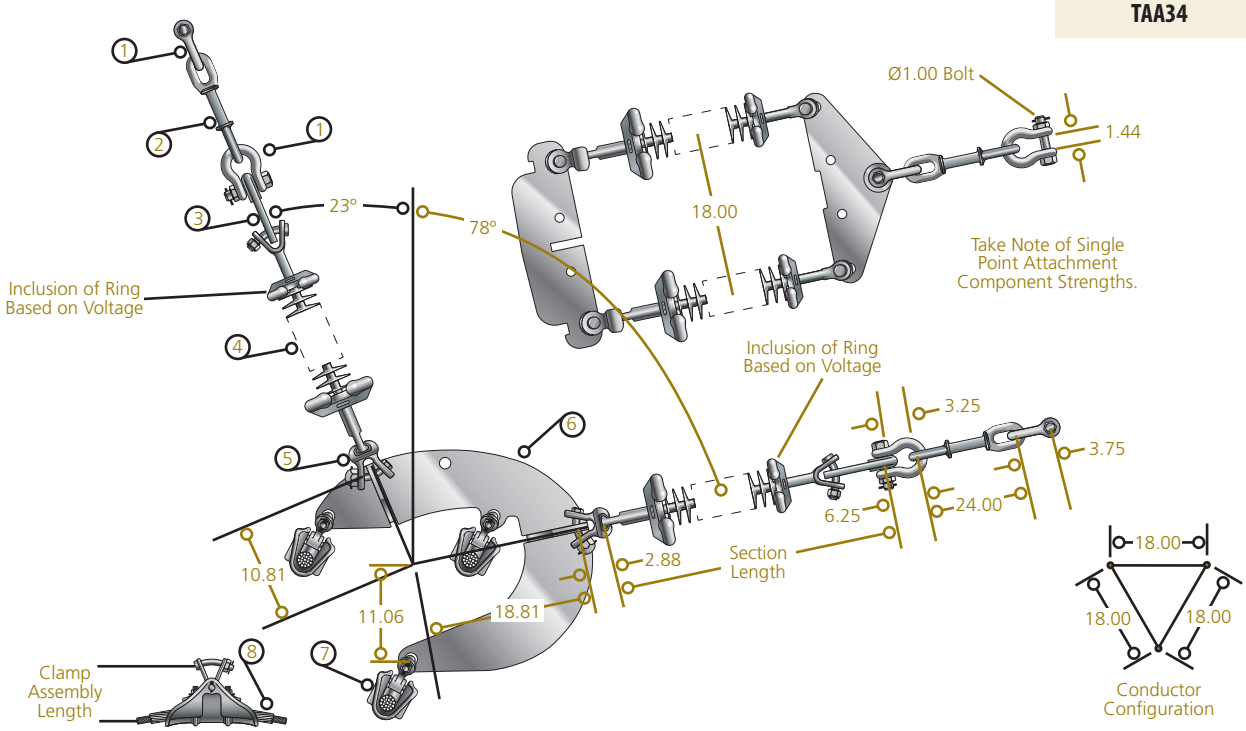
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
345	S050103S201B	117.8	50,000	12" Line End
300	S050155S201D	169.6	50,000	15" Line End 8" Ground End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Angle Suspension, 3-Bundle Conductor

Double V-String 50k lb Assembly, 345kV - 500kV

ASSEMBLY
TAA34



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS60BNK	Anchor Shackle	4	Forged Steel	80,000
2	HOOT8024	Oval Eye Ext. Link (24")	2	Forged Steel	80,000
3	YPD8018475	Yoke Plate	2	Ductile Iron	80,000
4	See Chart	Insulator, ANSI 52-11	4	Polymer	—
5	SYC50SN	Socket Y-Clevis	4	Ductile Iron	50,000
6	YPCB4011742	Yoke Plate	1	Galvanized Steel	40,000
7	See Note 1	Suspension Clamp w/Y-Clevis Eye	3	Aluminum	—
8	See Note 2	Armor Rods	3	Aluminum	—

Typical Insulator Selection

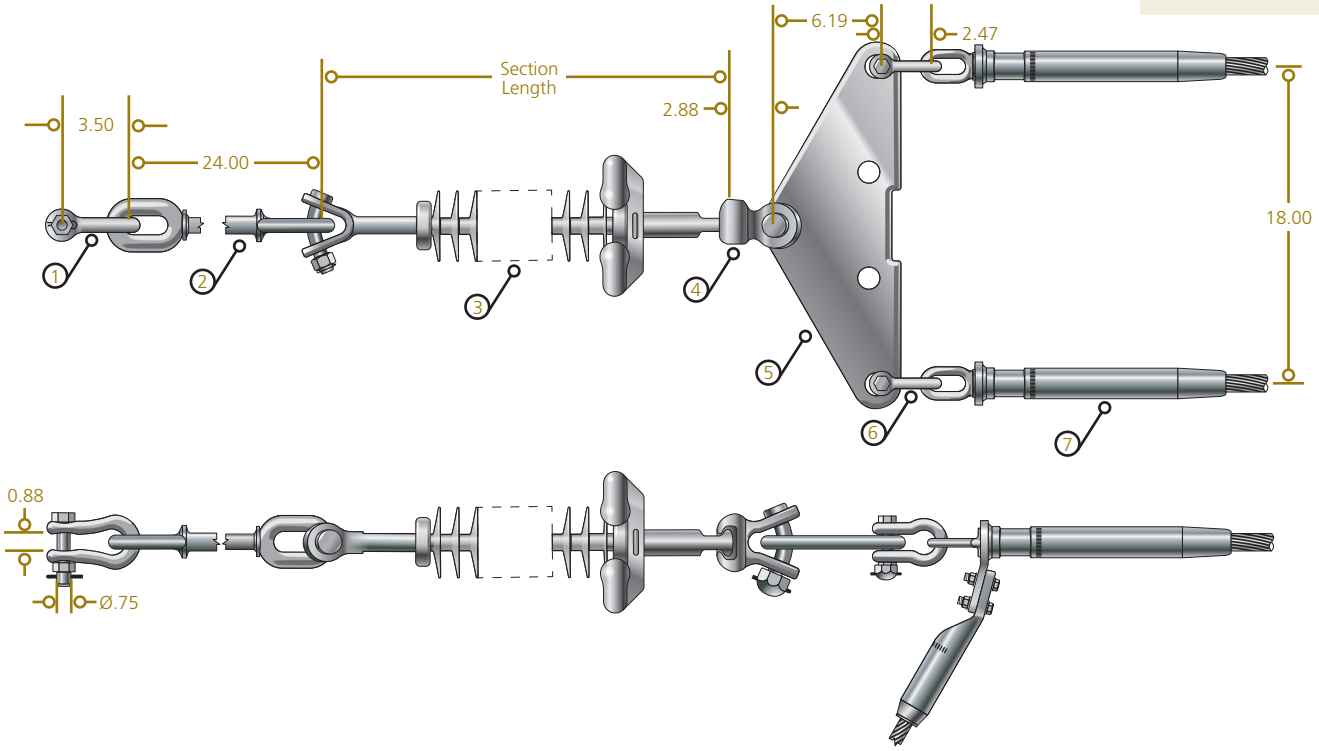
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
345	S050103S201B	117.8	50,000	12" Line End
500	S050155S201D	169.6	50,000	15" Line End 8" Ground End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Suspension Clamp section for standard and high temperature conductor suspension clamp options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Deadend, 2-Bundle Conductor

Single Insulator 50k lb Assembly, 230kV - 345kV

ASSEMBLY
TAD21



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50BNK	Anchor Shackle	1	Forged Steel	60,000
2	HOOT5024	Oval Eye Ext. Link (24")	1	Forged Steel	60,000
3	See Chart	Insulator, ANSI 52-11	1	Polymer	—
4	SYC50SN	4 Socket Y-Clevis	1	Ductile Iron	50,000
5	YPD50185491	Yoke Plate	1	Ductile Iron	50,000
6	AS25LBNKSN	Anchor Shackle	2	Forged Steel	30,000
7	See Note 1	Compression Deadend w/Terminal	2	Aluminum	Full Tension

Typical Insulator Selection

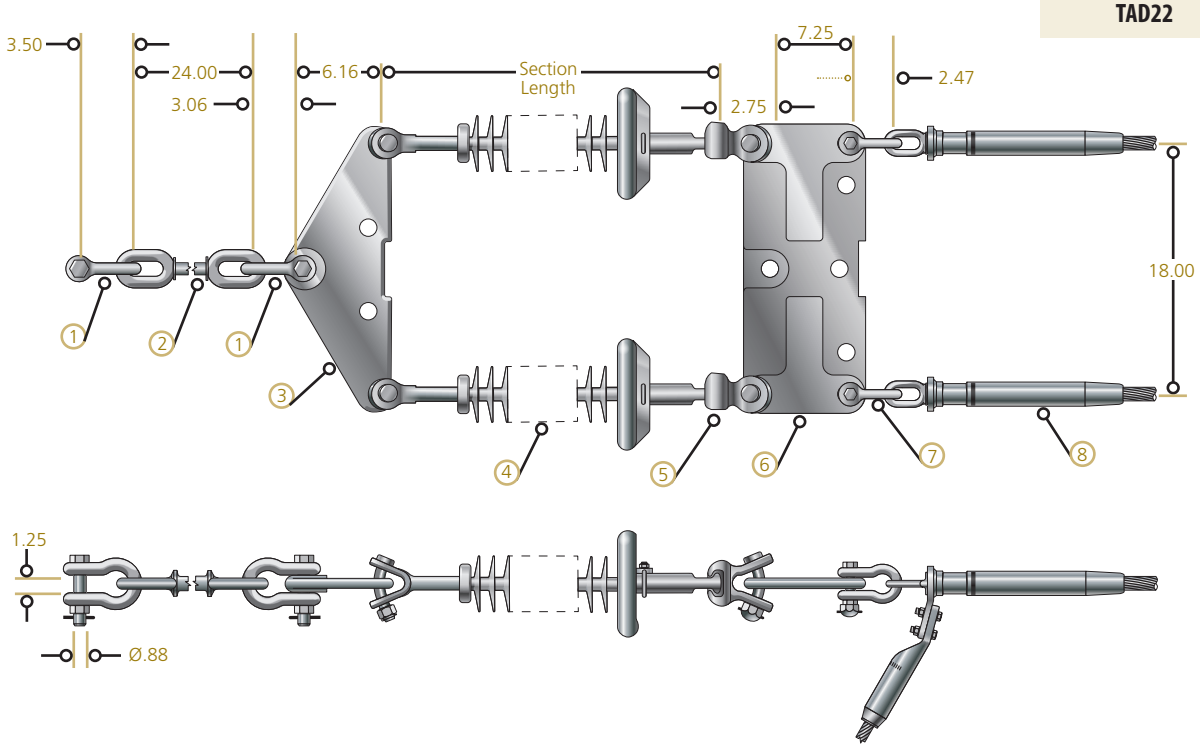
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
230	S050073S201A	87.6	50,000	8" Line End
345	S050103S201B	117.8	50,000	12" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Compression Deadends section for standard conductor compression deadend options, See Compression Conventional (Two Die) System section for high temperature conductor compression deadend options.
(2) See Armor Rod section for rod set based on conductor application.

EHV Deadend, 2-Bundle Conductor

Double Insulator 30k lb Assembly, 230kV - 345kV

ASSEMBLY
TAD22



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS50WBNK	Anchor Shackle	2	Forged Steel	60,000
2	HOO5024	Oval Eye Ext. Link (24")	1	Forged Steel	60,000
3	YPD60183771	Yoke Plate	1	Ductile Iron	60,000
4	See Chart	Insulator, ANSI 52-5	2	Polymer	—
5	SYC30SN	Socket Y-Clevis	2	Ductile Iron	30,000
6	YPR30187221	Yoke Plate	1	Ductile Iron	30,000
7	AS25LBNKSN	Anchor Shackle	2	Forged Steel	30,000
8	See Note 1	Compression Deadend w/Terminal	2	Aluminum	Full Tension

Typical Insulator Selection

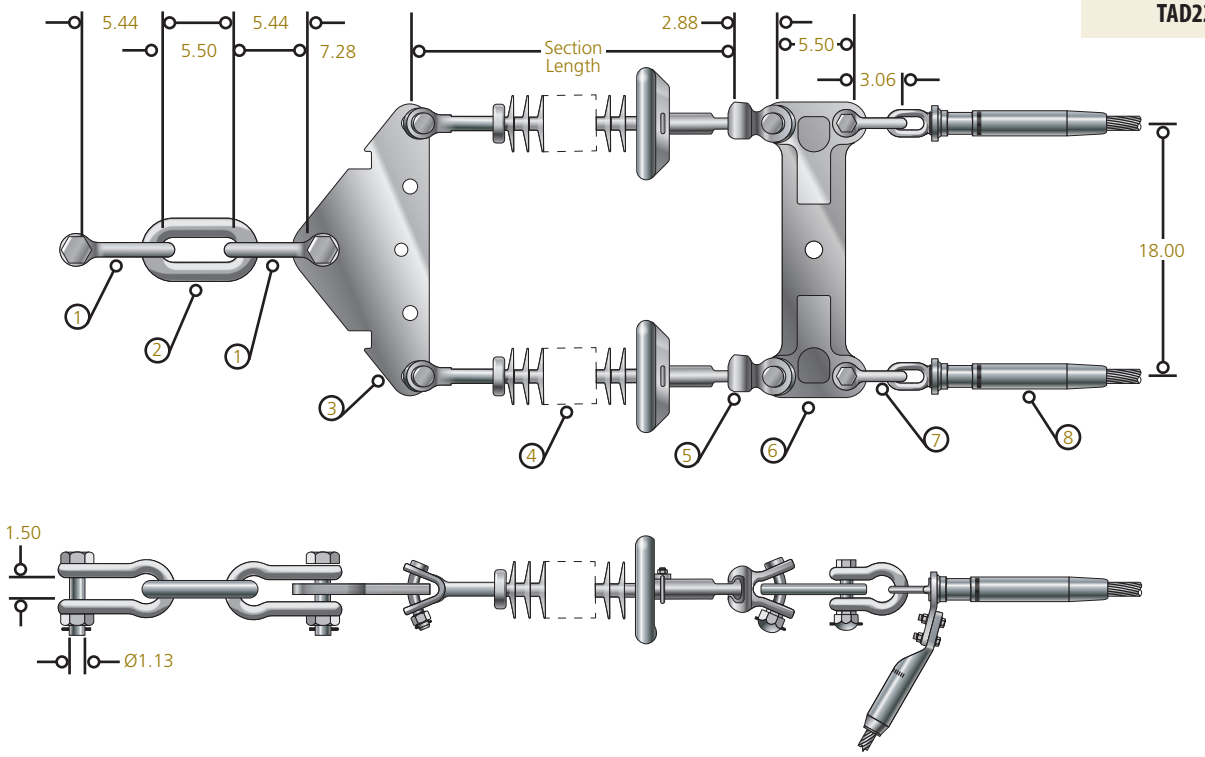
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
230	S030073S201A	85.1	30,000	8" Line End
345	S030103S201B	115.3	30,000	12" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Compression Deadends section for standard conductor compression deadend options, See Compression Conventional (Two Die) System section for high temperature conductor compression deadend options.

EHV Deadend, 2-Bundle Conductor

Double Insulator 50k lb Assembly, 230kV - 345kV

ASSEMBLY
TAD22



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	974153001	Anchor Shackle	2	Forged Steel	120,000
2	LK120CVN	Chain Link	1	Forged Steel	150,000
3	947604006	Yoke Plate	1	Galvanized Steel	100,000
4	See Chart	Insulator, ANSI 52-11	2	Polymer	—
5	SYC50SN	Socket Y-Clevis	2	Ductile Iron	50,000
6	YPR50190508	Yoke Plate	1	Ductile Iron	50,000
7	AS50WBNKSN	Anchor Shackle	2	Forged Steel	60,000
8	See Note 1	Compression Deadend w/Terminal	2	Aluminum	Full Tension

Typical Insulator Selection

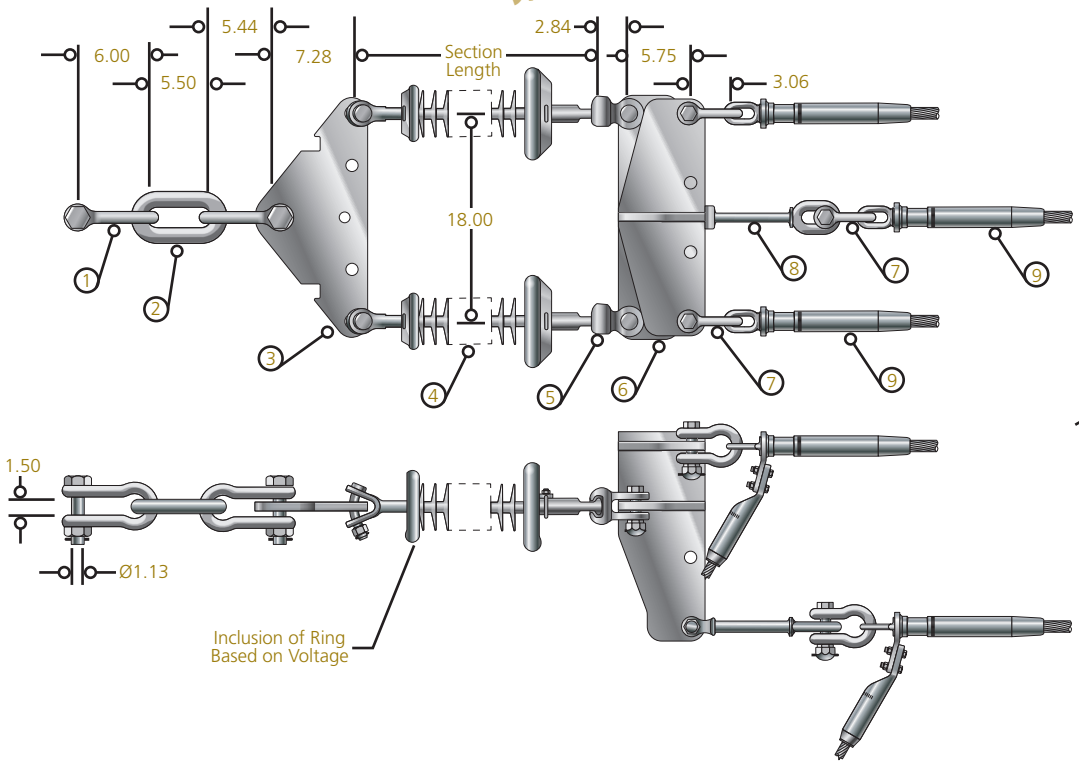
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
230	S050073S201A	87.6	50,000	8" Line End
345	S050103S201B	117.8	30,000	12" Line End

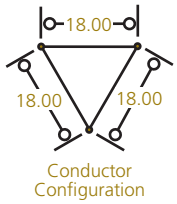
NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Compression Deadends section for standard conductor compression deadend options, See Compression Conventional (Two Die) System section for high temperature conductor compression deadend options.

EHV Deadend, 3-Bundle Conductor

Double Insulator 50k lb Assembly, 345kV - 500kV

ASSEMBLY
TAD32





Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	974153001	Anchor Shackle	2	Forged Steel	120,000
2	LK150	Chain Link	1	Forged Steel	150,000
3	947604006	Yoke Plate	1	Galvanized Steel	100,000
4	See Chart	Insulator, ANSI 52-11	2	Polymer	50,000
5	SC501BNKSN	Socket Clevis	2	Ductile Iron	50,000
6	YPX5011275	Yoke Plate	1	Galvanized Steel	50,000
7	AS50WBNKSN	Anchor Shackle	3	Forged Steel	60,000
8	FHOEC5012BNKSN	Chain Eye - Clevis Ext. Link (12")	1	Forged Steel	50,000
9	See Note 1	Compression Deadend w/Terminal	3	Aluminum	Full Tension

Typical Insulator Selection

Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
345	S050103S201B	117.8	50,000	12" Line End
500	S050155S201D	169.6	50,000	15" Line End 8" Ground End

NOTE: For quoting/ordering instructions, see Assemblies section.

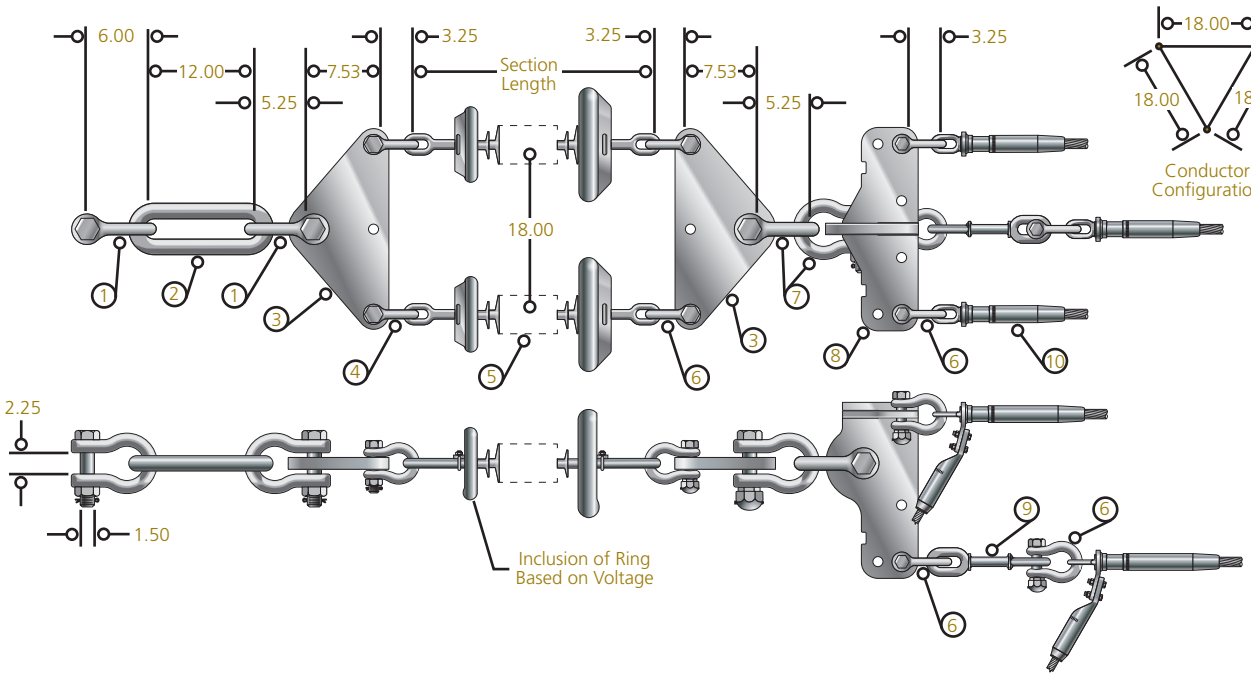
(1) See Compression Deadends section for standard conductor compression deadend options, See Compression Conventional (Two Die) System section for high temperature conductor compression deadend options.

EHV Deadend, 3-Bundle Conductor

Double Insulator 80k lb Assembly, 345kV - 500kV

ASSEMBLY

TAD32



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	M866AG	Anchor Shackle	2	Forged Steel	210,000
2	LK200	Chain Link	1	Forged Steel	200,000
3	YPD16011137	Yoke Plate	2	Galvanized Steel	160,000
4	AS60BNK	Anchor Shackle	2	Forged Steel	80,000
5	See Chart	Insulator, Eye-Eye	2	Polymer	80,000
6	AS60BNKSN	Anchor Shackle	6	Forged Steel	80,000
7	M866AGSN	Anchor Shackle	2	Forged Steel	210,000
8	YPX20012551	Yoke Plate	1	Galvanized Steel	200,000
9	HOOT5013	Chain Eye - Chain Eye Ext. Link (13")	1	Forged Steel	60,000
10	See Note 1	Compression Deadend w/Terminal	3	Aluminum	Full Tension

Typical Insulator Selection

Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
345	S080103H000B	124.5	80,000	12" Line End
500	S080155H000D	176.3	80,000	15" Line End 8" Ground End

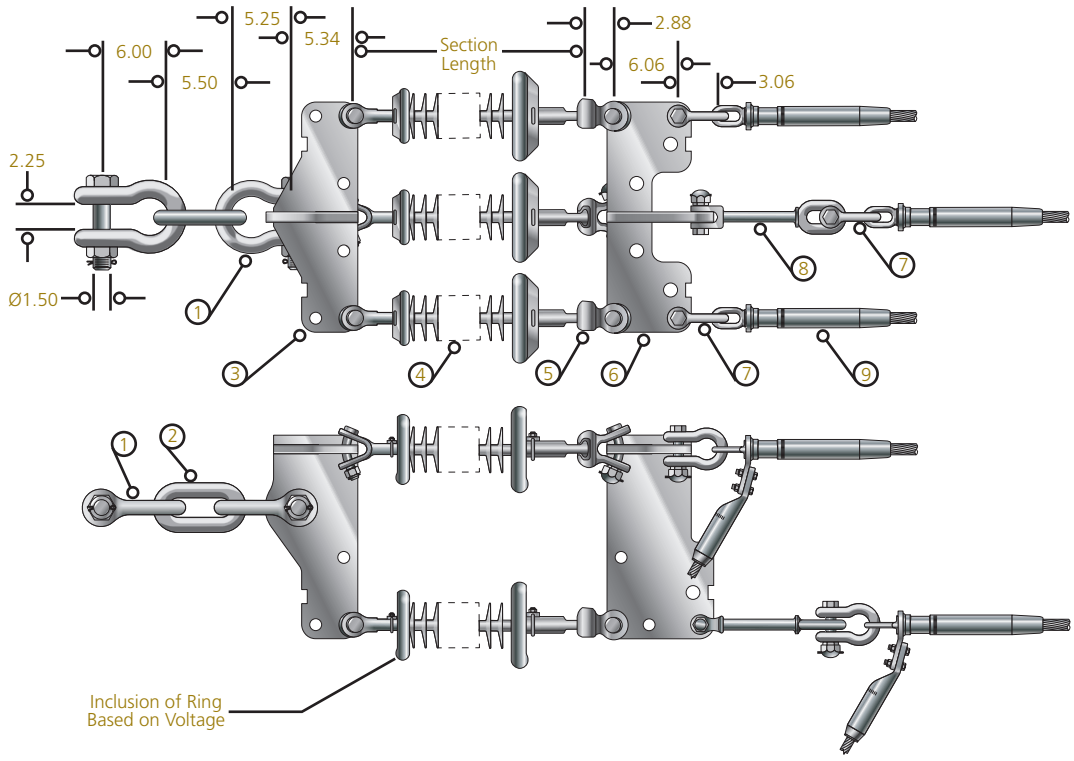
NOTE: For quoting/ordering instructions, see Assemblies section.

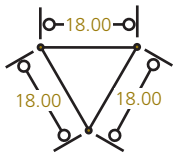
(1) See Compression Deadends section for standard conductor compression deadend options, See Compression Conventional (Two Die) System section for high temperature conductor compression deadend options.

EHV Deadend, 3-Bundle Conductor

Triple Insulator 50k lb Assembly, 345kV - 500kV

ASSEMBLY
TAD33





Conductor Configuration

Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS135BNK	Anchor Shackle	2	Forged Steel	150,000
2	LK150	Chain Link	1	Forged Steel	150,000
3	YPX1509397	Yoke Plate	1	Galvanized Steel	150,000
4	See Chart	Insulator, ANSI 52-11	3	Polymer	50,000
5	SYC50SN	Socket Y-Clevis	3	Ductile Iron	50,000
6	YPX5011744	Yoke Plate	1	Galvanized Steel	50,000
7	AS50WBNKSN	Anchor Shackle	3	Forged Steel	60,000
8	FHOEC5012BNKSN	Chain Eye - Clevis Ext. Link (12")	1	Forged Steel	50,000
9	See Note 1	Compression Deadend w/Terminal	3	Aluminum	Full Tension

Typical Insulator Selection

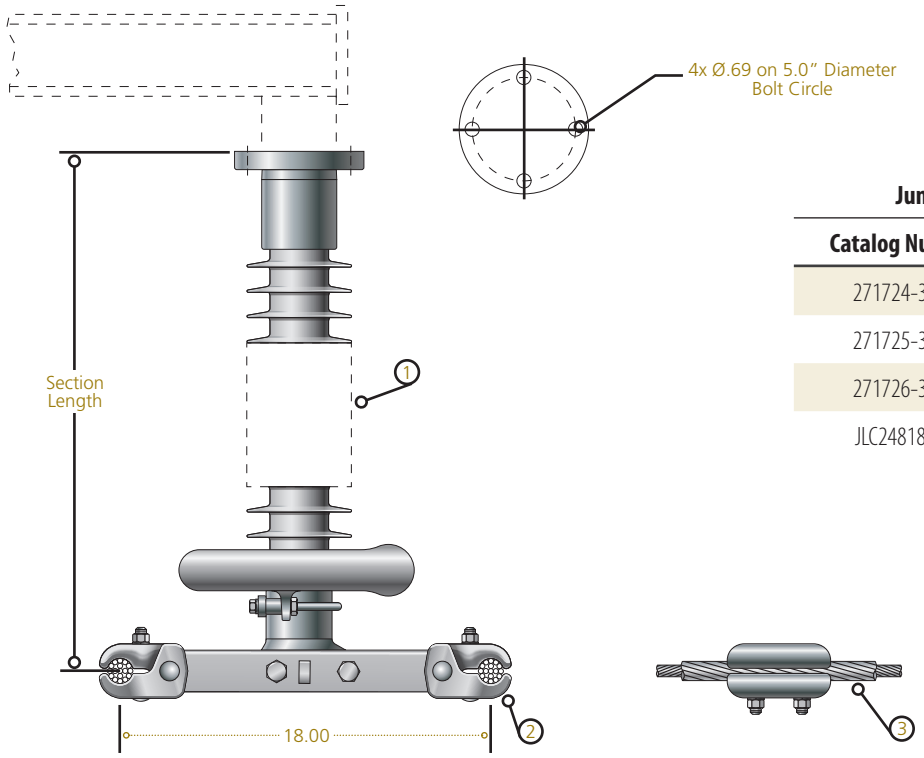
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
345	S050103S201B	117.8	50,000	12" Line End
500	S050155S201D	169.6	50,000	15" Line End 8" Ground End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) See Compression Deadends section for standard conductor compression deadend options, See Compression Conventional (Two Die) System section for high temperature conductor compression deadend options.

EHV Jumper Support, 2-Bundle Conductor

2.5" Post (Vertical) Insulator Assembly, 230kV - 345kV

ASSEMBLY
TAJ21P



Jumper Clamp Assembly

Catalog Number	Clamp Range
271724-3001	1.00-1.40 Diameter
271725-3001	1.40-1.60 Diameter
271726-3001	1.60-2.00 Diameter
JLC24818275	2.00-2.48 Diameter

Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	See Chart	Insulator, Post w/Ring	1	Polymer	—
2	See Chart	Clamp Assembly	1	Steel/Aluminum	5,000
3	See Note 1	Armor Rods	2	Aluminum	—

Typical Insulator Selection

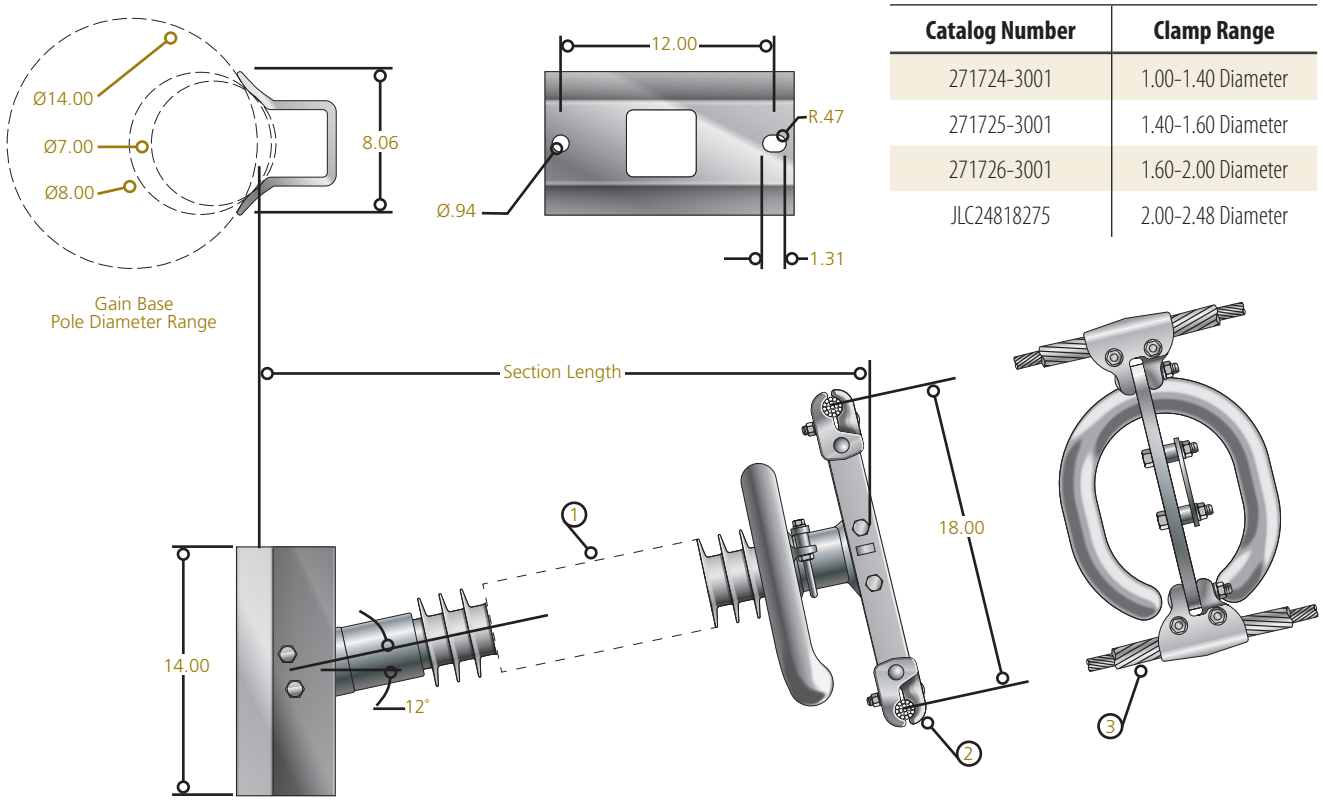
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SCL lb	Corona Ring
230	P250070S530A	79.8	1,050	12" Line End
345	P250101S530A	111.3	740	12"Line End

NOTE: RCL is 50% of the ultimate cantilever load capacity.
Maximum design tension load rating is 7,500 lb.
For quoting/ordering instructions, see Assemblies section.
(1) See Armor Rod section for rod set based on conductor application.

EHV Jumper Support, 2-Bundle Conductor

2.5" Post (Horizontal) Insulator Assembly, 230kV - 345kV

ASSEMBLY
TAJ21P



Jumper Clamp Assembly

Catalog Number	Clamp Range
271724-3001	1.00-1.40 Diameter
271725-3001	1.40-1.60 Diameter
271726-3001	1.60-2.00 Diameter
JLC24818275	2.00-2.48 Diameter

Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	See Chart	Insulator, Post w/Ring	1	Polymer	—
2	See Chart	Clamp Assembly	1	Steel/Aluminum	5,000
3	See Note 1	Armor Rods	2	Aluminum	—

Typical Insulator Selection

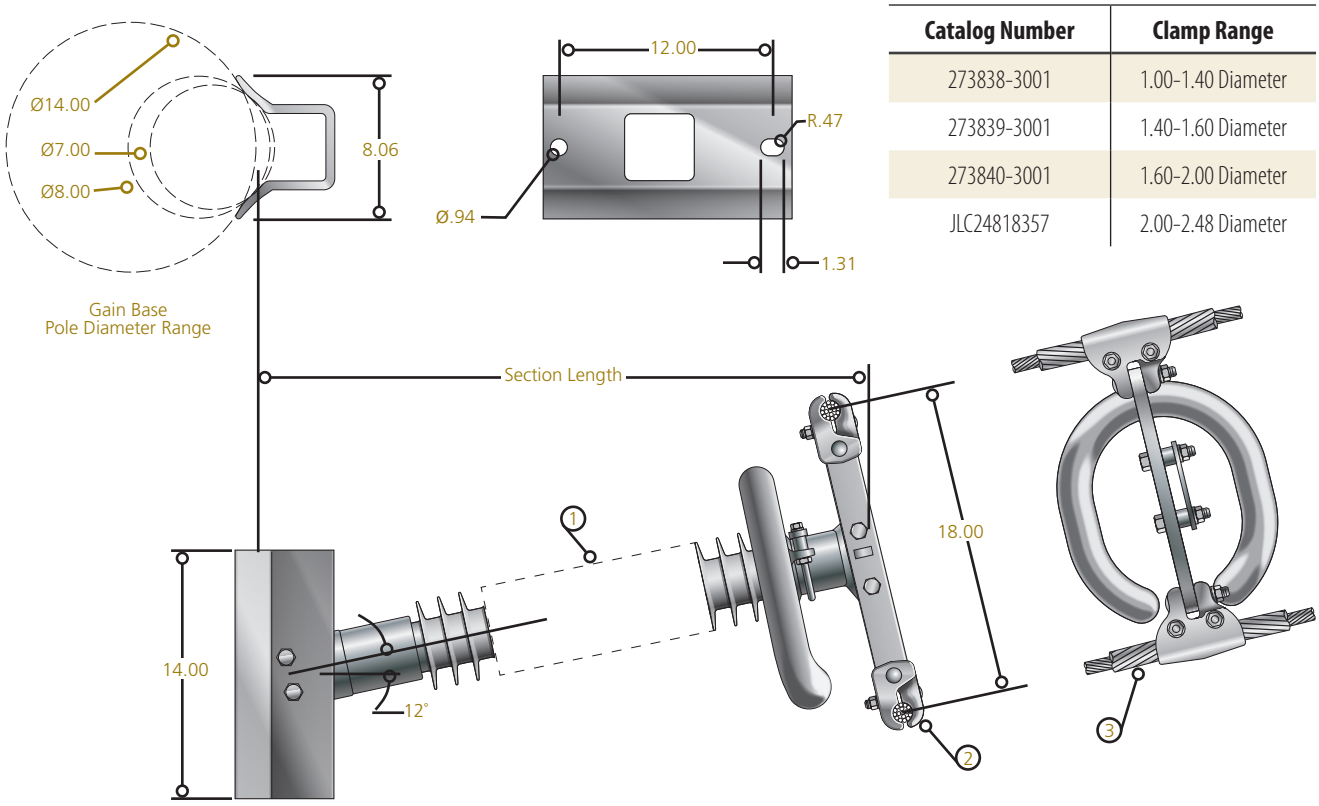
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	RCL lb	Corona Ring
230	P250070S002A	81.9	1,050	12" Line End
345	P250101S002A	112.7	740	12" Line End

NOTE: RCL is 50% of the ultimate cantilever load capacity.
Maximum design tension load rating is 7,500 lb.
For quoting/ordering instructions, see Assemblies section.
(1) See Armor Rod section for rod set based on conductor application.

EHV Jumper Support, 2-Bundle Conductor

3" Post (Horizontal) Insulator Assembly, 230kV - 345kV

ASSEMBLY
TAJ21P



Jumper Clamp Assembly

Catalog Number	Clamp Range
273838-3001	1.00-1.40 Diameter
273839-3001	1.40-1.60 Diameter
273840-3001	1.60-2.00 Diameter
JLC24818357	2.00-2.48 Diameter

Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	See Chart	Insulator, Post w/Ring	1	Polymer	—
2	See Chart	Jumper Clamp Assembly	1	Steel/Aluminum	5,000
3	See Note 1	Armor Rods	2	Aluminum	—

Typical Insulator Selection

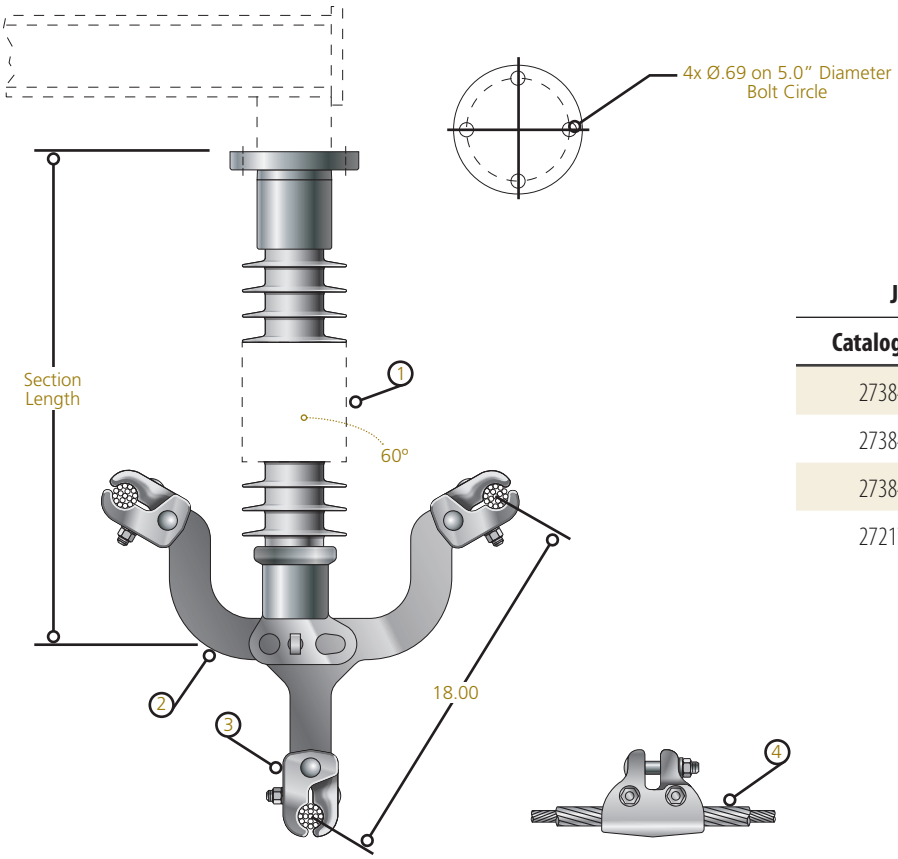
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	RCL lb	Corona Ring
230	P300074S002A	85.6	1,740	15" Line End
345	P300099S002A	110.4	1,315	15" Line End

NOTE: RCL is 50% of the ultimate cantilever load capacity.
Maximum design tension load rating is 12,500 lb.
For quoting/ordering instructions, see Assemblies section.
(1) See Armor Rod section for rod set based on conductor application.

EHV Jumper Support, 3-Bundle Conductor

3" Post (Vertical) Insulator Assembly, 345kV - 500kV

ASSEMBLY
TAJ31P



Jumper Clamp Assemblies

Catalog Number	Clamp Range
2738413001	1.00-1.40 Diameter
2738423001	1.40-1.60 Diameter
2738433001	1.60-2.00 Diameter
2721783002	2.00-2.48 Diameter

Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	See Chart	Insulator, Post	1	Polymer	—
2	2717034001	Yoke Plate	1	Steel	5,000
3	See Chart	Jumper Loop Clamp	3	Aluminum	5,000
4	See Note 1	Armor Rods	3	Aluminum	—

Typical Insulator Selection

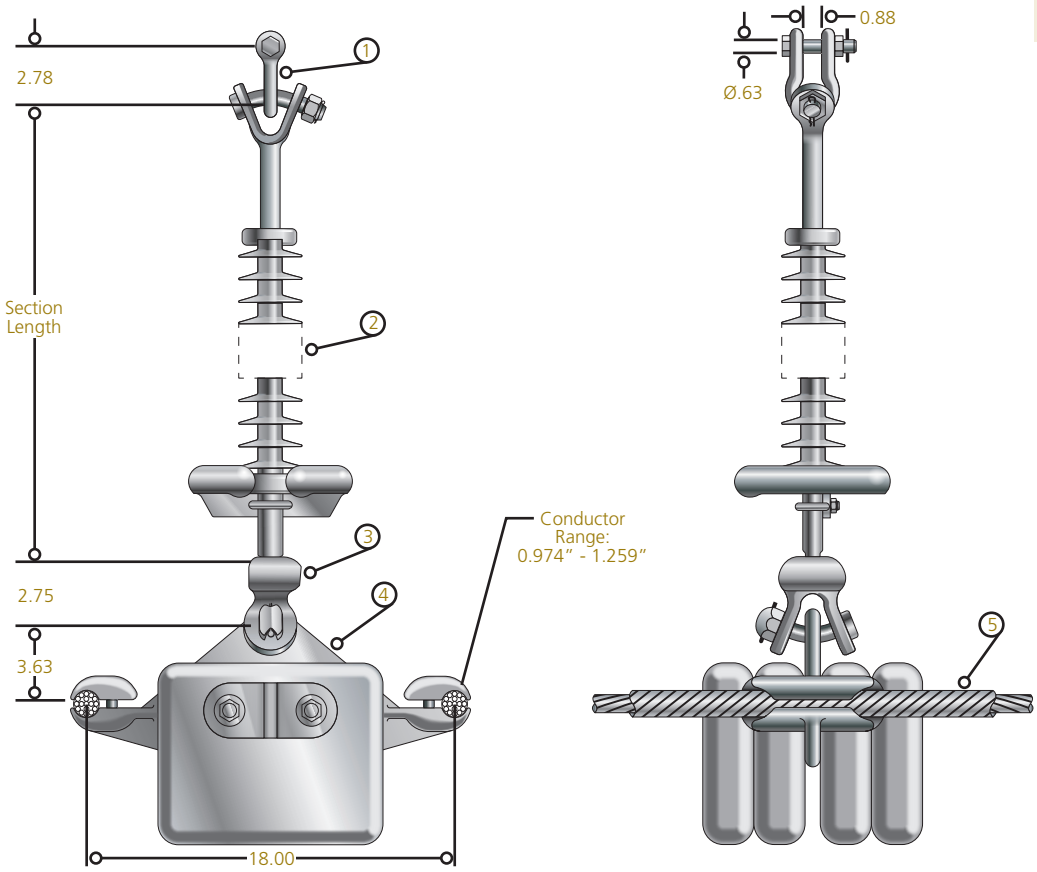
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	RCL lb	Corona Ring
345	P300099SSAAA	110.6	1,315	—
500	P300117SSAAA	128.8	1,120	—

NOTE: RCL is 50% of the ultimate cantilever load capacity.
Maximum design tension load rating is 12,500 lb.
For quoting/ordering instructions, see Assemblies section.
(1) See Armor Rod section for rod set based on conductor application.

EHV Jumper Support, 2-Bundle Conductor

Single Insulator with Weights 30k lb Assembly, 230kV - 345kV

ASSEMBLY
TAJ21



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	1	Forged Steel	30,000
2	See Chart	Insulator, ANSI 52-5	1	Polymer	—
3	SYC30SN	Socket Y-Clevis	1	Ductile Iron	30,000
4	YPJ21018215200(1)	Jumper Yoke w/Weights	1	Aluminum	10,000
5	See Note 2	Armor Rods	1	Aluminum	—

Typical Insulator Selection

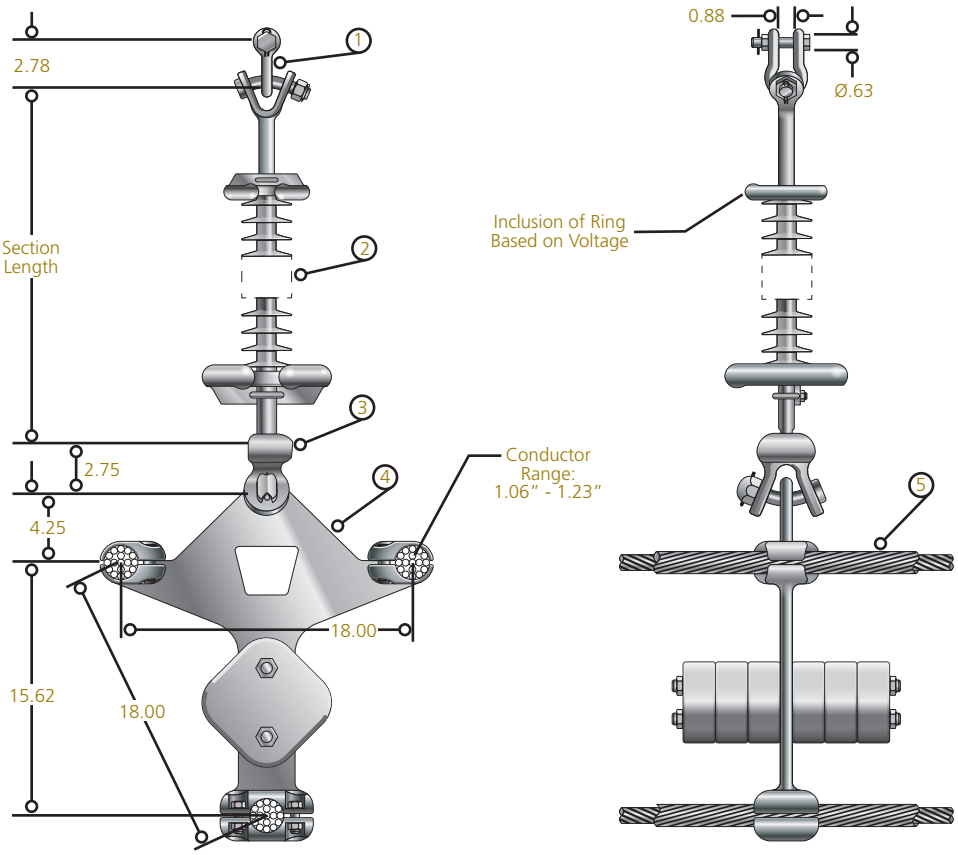
Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
230	S030073S201A	85.1	30,000	8" Line End
345	S030103S201B	115.3	30,000	12" Line End

NOTE: For quoting/ordering instructions, see Assemblies section.
(1) For jumper yokes with other conductor ranges or different amounts of weight, please contact HPS.
(2) See Armor Rod section for rod set based on conductor application.

EHV Jumper Support, 3-Bundle Conductor

Single Insulator with Weights 30k lb Assembly, 345kV - 500kV

ASSEMBLY
TAJ31



Base Assembly Bill of Material

Item	Part Number	Description	Quantity	Material	UBS lb
1	AS25LBNK	Anchor Shackle	1	Forged Steel	30,000
2	See Chart	Insulator, ANSI 52-5	1	Polymer	—
3	SYC30SN	Socket Y-Clevis	1	Ductile Iron	30,000
4	YPJ310251891300(1)	Jumper Yoke Assembly	1	Aluminum	10,000
5	See Note 2	Armor Rods	1	Aluminum	—

Typical Insulator Selection

Line Voltage (kV)	Quadri*Sil® Part Number	Section Length Inches	SML lb	Corona Ring
345	S030103S201B	115.3	30,000	12" Line End
500	S030155S201D	167.2	30,000	15" Line End 8" Ground End

NOTE: for quoting/ordering instructions, see Assemblies section.
(1) For jumper yokes with other conductor ranges or different amounts of weight, please contact HPS.
(2) See Armor Rod section for rod set based on conductor application.

Construction Accessories & Fasteners

Construction Accessories & Fasteners Index

Construction Accessories

PSSLV ..... Conductor Pulling Sleeves J-2

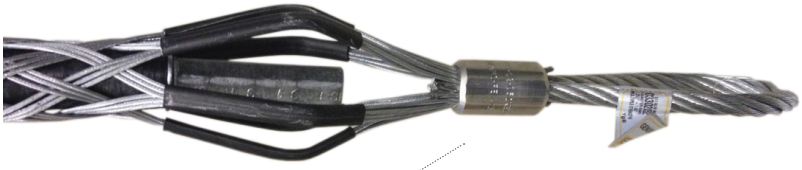
Fasteners

BW. ..... Belleville Spring Washers J-4
HB ..... Hex Head Bolts J-4
HN ..... Hex Nuts J-6
HW ..... Split Ttype Lockwashers J-6
HF ..... Flatwashers J-6
SSHDW ..... Stainless Steel Bolt Haardware Kits J-7

Conductor Pulling Sleeves

Features

- Prevents conductor steel core slip during wire pulling of ACSS, ACSS/TW and ACSR/SD conductors.
- Helps to prevent conductor damage and costly re-stringing operations
- Cuts wire stringing time to achieve a secure grip on wire under stringing tension



Kellems® Pulling Grip



Conductor end after pulling



Pull-Stop Washer



precision

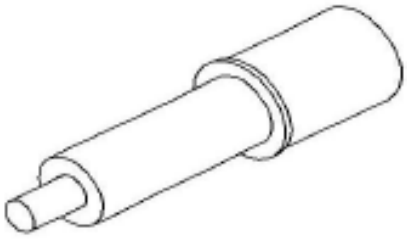
Pulling Sleeves

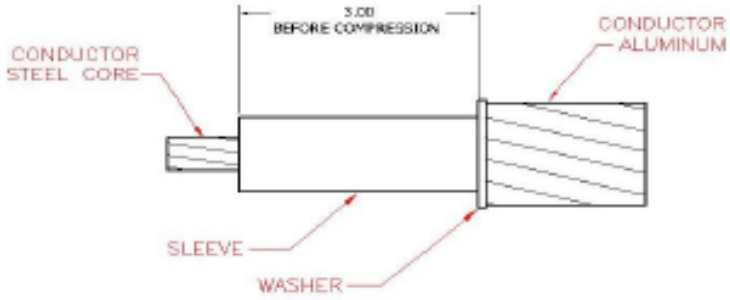
STEEL

PSSLV

Crimp sleeve and washer prevent steel core slip due to aluminum strand elongation during conductor pulling operations with ACSS, ACSS/TW and ACSR/SD conductors.

Material: *galvanized steel*





Product Data and Conductor Size

Catalog Number	Washer		Conductors (1)							
	O.D.	I.D.	ACSS	O.D. / Core	ACSS/TW & ACSR/SD	TW O.D.	SD O.D.	Core	Die Size	Press Min. Tons
PSSLV100453100	1.000	0.438	795 26/7	1.108 / 0.408	795 20/7 T16 954 20/7 T13	1.010 1.084	1.077 1.147	0.408 0.399		
PSSLV100453125	1.250	0.438	954 54/7 1033.5 54/7	1.196 / 0.399 1.245 / 0.415	1033.5 22/7 T13	1.128	1.191	0.415		
PSSLV100469125	1.250	0.500	1113 54/19	1.293 / 0.431	1113 38/19 T13	1.185	1.233	0.431	16SH	
PSSLV100484125	1.250	0.500			959.6 22/7 T16 1192.5 38/19 T13 1233.6 38/19 T13	1.108 1.225 1.245	1.247	0.448 0.446 0.455		60
PSSLV100484141	1.407	0.500	1192.5 54/19	1.338 / 0.446						
PSSLV113500125	1.250	0.500			1272 38/19 T13 1351.5 38/19 T13	1.264 1.300	1.378 1.417	0.461 0.475		
PSSLV113500141	1.407	0.500	1272 54/19 1351.5 54/19	1.382 / 0.461 1.424 / 0.475					18SH	
PSSLV113547138	1.375	0.563	1590 54/19	1.545 / 0.515	1433.6 39/19 T13 1590 42/19 T13			0.489 0.515		
PSSLV125609163	1.625	0.594			1926.9 42/19 T13			0.567	20SH	100

(1) Consult Factory for conductor pulling sleeve requirements not listed here.

Belleville Springs — *Stainless Steel*

STAINLESS STEEL

BW

Note: Fasteners listed are offered only to replace original parts in new HPS products. For any other use, purchaser accepts full responsibility for part application and service performance.



Material: *stainless steel*

Catalog Number	Compression Rating —Pounds—	Bolt Dia. Inches	Outside Dia. Inches	Thickness Inches	Approx. Wt./100 Lbs. (kg)
BW500	3,750	.50	1.06	.11	3.8 (1.72)

Hex Head Bolts — *Aluminum*

ALUMINUM

HBA

Material: *2024—T4 aluminum alloy with #205 alumilite finish*

Catalog Number	Die & Thread —Inches—	Length —Inches—	Approx. Wt./100 Lbs. (kg)
HBA150	.50"-13	1.50	4.2 (1.9)
HBA175		1.75	4.7 (2.1)
HBA200		2.00	5.2 (2.4)
HBA225		2.25	5.7 (2.6)
HBA250		2.50	6.2 (2.8)
HBA275		2.75	6.7 (3.0)
HBA300		3.00	7.2 (3.3)
HBA350		3.50	8.2 (3.7)



Hex Head Bolts — *Silicon Bronze*

BRONZE

HBB

Material: *high strength silicon bronze*

Catalog Number	Die & Thread —Inches—	Length —Inches—	Approx. Wt./100 Lbs. (kg)
HBB150	.50"-13	1.50	11.7 (5.0)
HBB175		1.75	13.1 (5.9)
HBB200		2.00	14.5 (6.6)
HBB225		2.25	15.9 (7.2)
HBB250		2.50	17.3 (7.8)
HBB275		2.75	18.7 (8.5)
HBB300		3.00	20.1 (9.1)
HBB350		3.50	22.8 (10.3)



Fasteners Hex Head Bolts — *Galvanized Steel*

Note: Fasteners listed are offered only to replace original parts in new HPS products. For any other use, purchaser accepts full responsibility for part application and service performance.

GALVANIZED STEEL

HBG



Material: *carbon steel – galvanized*

Catalog Number	Die & Thread —Inches—	Length —Inches—	Approx. Wt./100 Lbs. (kg)
HBG150	.50″-13	1.50	11.6 (5.3)
HBG175		1.75	13.0 (5.9)
HBG200		2.00	14.5 (6.6)
HBG225		2.25	15.7 (7.1)
HBG250		2.50	17.3 (7.8)
HBG275		2.75	18.5 (8.4)

Hex Head Bolts — *Stainless Steel*

STAINLESS STEEL

HBS



Material: *18-8 stainless steel uncoated*

Catalog Number	Die & Thread —Inches—	Length —Inches—	Approx. Wt./100 Lbs. (kg)
HBS150	.50″-13	1.50	11.6 (5.3)
HBS175		1.75	13.1 (5.9)
HBS200		2.00	14.5 (6.6)
HBS225		2.25	15.7 (7.1)
HBS250		2.50	17.3 (7.8)
HBS275		2.75	18.5 (8.4)
HBS300		3.00	19.9 (9.0)
HBS350		3.50	23.0 (10.4)

Fasteners — *Aluminum, Silicon Bronze, Galvanized Steel & Stainless Steel*

Note: Fasteners listed are offered only to replace original parts in new HPS products. For any other use, purchaser accepts full responsibility for part application and service performance.

Catalog Number	Material	Size & Thread Inches	Width Inches	Thickness Inches	Approx. Wt./100 Lbs. (kg)
HNA500	Aluminum 6061-T6 Dry Wax Coated	.50-13	.75	.44	1.4 (.6)
HNB500	Silicon Bronze High Strength	.50-13	.75	.44	3.8 (1.7)
HNG500	Galvanized Steel	.50-13	.75	.44	3.8 (1.7)
HNS500	Stainless Steel 18-8	.50-13	.75	.44	3.8 (1.7)

NUTS

HN



Split Type Lockwashers — *Aluminum, Silicon Bronze, Galvanized Steel & Stainless Steel*

Catalog Number	Material	Bolt Dia. Inches	Thickness Inches	Approx. Wt./100 Lbs. (kg)
HWA500	Aluminum 7075-T6 Etch Finish	.50	.14	.7 (.32)
HWB500	Silicon Bronze High Strength	.50	.14	2.0 (.91)
HWG500	Galvanized Steel	.50	.14	1.8 (.82)
HWSL500	Stainless Steel 18-8	.50	.14	3.9 (1.77)

LOCKWASHERS

HW

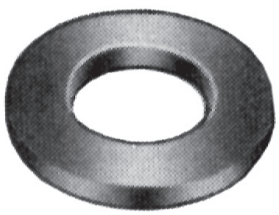


Flatwashers — *Aluminum, Silicon Bronze, Galvanized Steel & Stainless Steel*

Catalog Number	Material	Bolt Dia. Inches	Outside Dia. Inches	Thickness Inches	Approx. Wt./100 Lbs. (kg)
HFA500	Aluminum 7075-T6 Plain	.50	1.06	.09	.7 (.32)
HFB500	Silicon Bronze High Strength	.50	1.06	.09	2.0 (.91)
HFG500	Galvanized Steel	.50	1.06	.11	1.8 (.82)
HFS500	Stainless Steel 18-8	.50	1.06	.08	2.1 (.9)

FLATWASHERS

HF

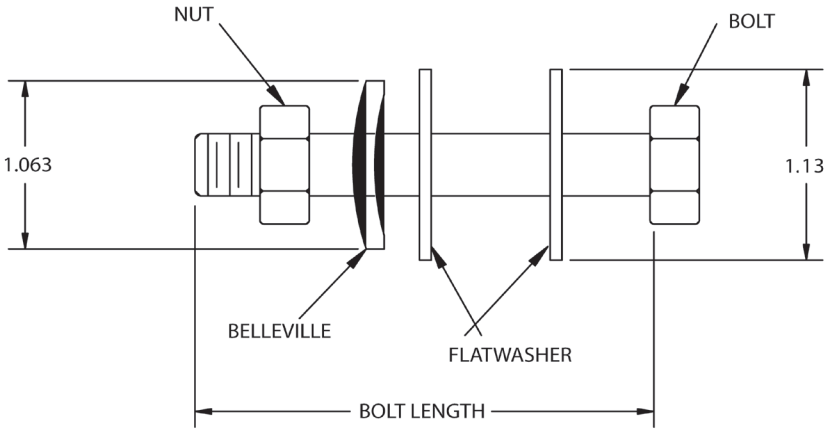


Fasteners — *Stainless Steel Terminal Hardware Sets*

Stainless steel two-hole or four-hole terminal hardware sets designed for joining aluminum to copper or bronze pads. Belleville washer torqued to 40 foot-pounds maintains pressure during expansion and contraction of the terminal pads.

STAINLESS STEEL
SSHDW

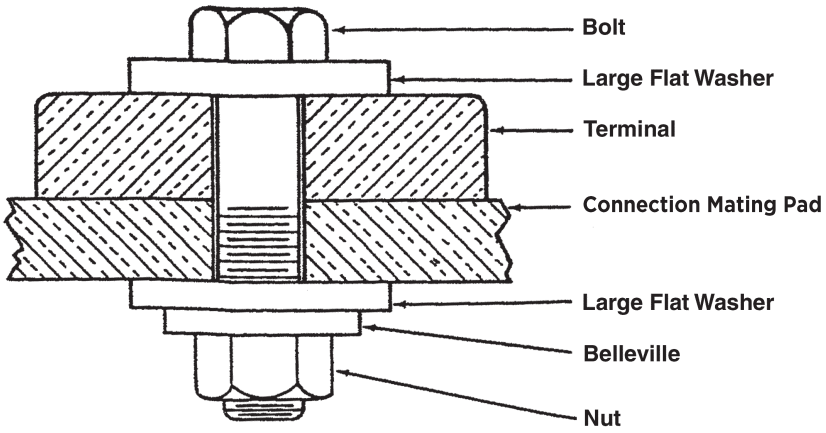
Note: See component catalog pages for details.



Product Data and Conductor Size

CATALOG NUMBER	BOLT LENGTH	QTY.	BOLT	QTY.	FLATWASHER	QTY.	BELLEVILLE	QTY.	NUT
SS2HDW200	1/2"-13 X 2.00"	2	HBS200	4	HFS5001	2	BW500	2	HNS500
SS2HDW225	1/2"-13 X 2.25"	2	HBS225	4	HFS5001	2	BW500	2	HNS500
SS2HDW250	1/2"-13 X 2.50"	2	HBS250	4	HFS5001	2	BW500	2	HNS500
SS4HDW200	1/2"-13 X 2.00"	4	HBS200	8	HFS5001	4	BW500	4	HNS500
SS4HDW225	1/2"-13 X 2.25"	4	HBS225	8	HFS5001	4	BW500	4	HNS500
SS4HDW250	1/2"-13 X 2.50"	4	HBS250	8	HFS5001	4	BW500	4	HNS500

Suggested method of mounting connectors



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.

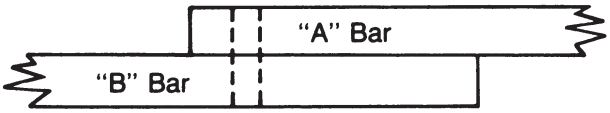
Non-gritted sealants, generally referred to as joint compounds, are recommended for flat connections and as a groove sealant in bolted connectors.

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



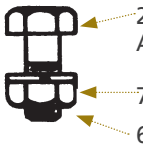
If "A" BAR is	Cu	AL	AL	Galvanized Steel	Galvanized Steel
and "B" BAR is	Cu	Cu	AL	Cu	AL
Recommended Series of Hardware	(1) Si-Br (2) SS (3) GS	(1) SS *or* GS	(1) AL (2) SS *or* GS	(1) Si-Br (2) SS *or* GS	(1) AL (2) SS *or* GS

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

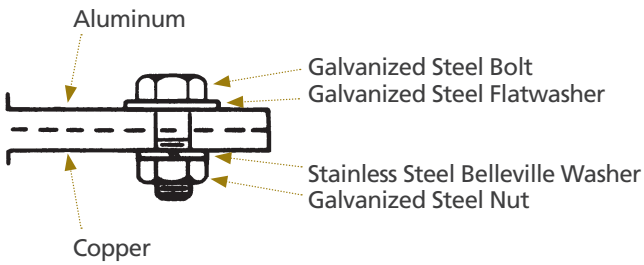
Aluminum Connector (Clamping Hardware)



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

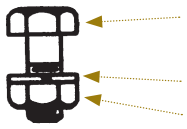


Aluminum To Copper Assemblies (Tongue Mounting Hardware)

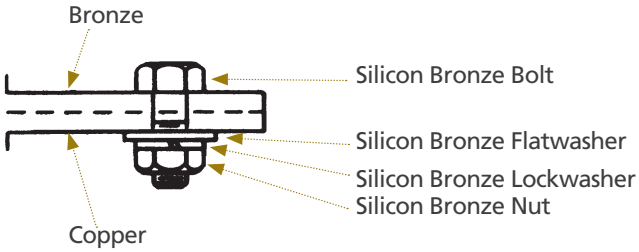


Bronze Connectors

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.

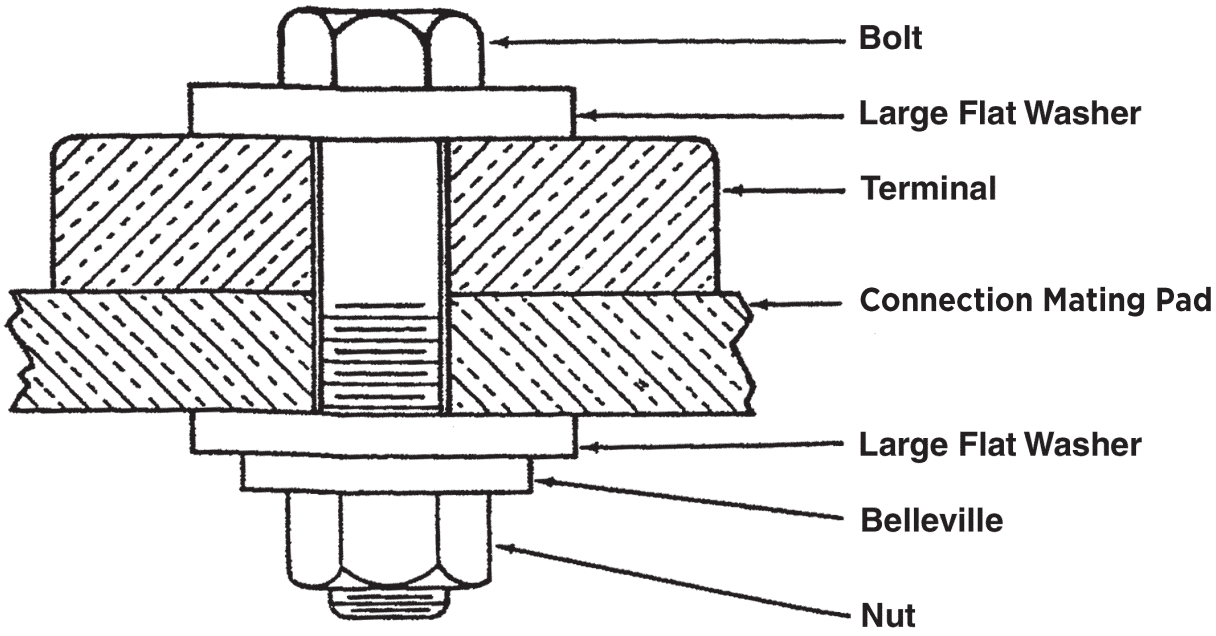
Heavy Duty [1] Bolted Pad Connectors
Compression, Welded and Close-Fit Bolted Designs

Product Data and Conductor Size

Bolted Pad		Bolts [2]		Ampacity (A) [4]	
Dimensions (in)				Inhibitor Type	
Width	Length	Number	Size (in)	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
HCSA	Helical Cushion Suspension Assembly	250	–	–
ACSS rated Connectors[2] & Clamps				
HCSA	Helical Cushion Suspension Assembly	250	–	–
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 compresson connectors installed with standard joint compound, FARGO type UJC.

(2) ACSS compresson 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.

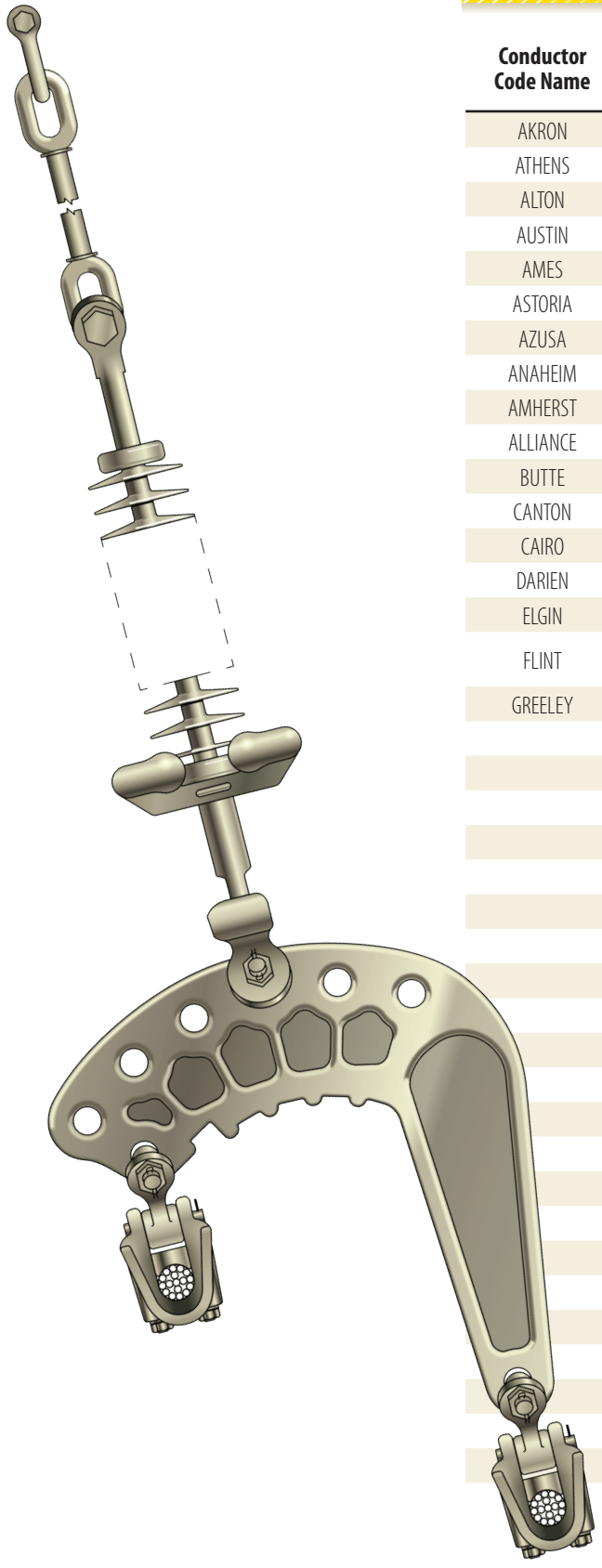
Bolted Connectors

Catalog No. Suffix	Description of Change or Modification
ANCO	Galvanized Steel ANCO® Locknut
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 particuar 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 sealent 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 indentifier.
HT	High Temperature Aplication 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 1⁄6 str (7)	0.395	0.729	0.167
ANAHEIM	AAAC 2⁄6 str (7)	0.448	0.782	0.167
AMHERST	AAAC 3⁄6 str (7)	0.503	0.837	0.167
ALLIANCE	AAAC 4⁄6 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 1/0 str (7)	0.368	0.660	0.146	0.610	0.121
	AAC 1/0 str (19)	0.373	0.665	0.146	0.615	0.121
ASTER	AAC 2/0 str (7)	0.414	0.706	0.146	0.656	0.121
	AAC 2/0 str (19)	0.419	0.711	0.146	0.661	0.121
PHLOX	AAC 3/0 str (7)	0.464	0.798	0.167	0.706	0.121
	AAC 3/0 str (19)	0.470	0.804	0.167	0.712	0.121
OXLIP	AAC 4/0 str (7)	0.522	0.856	0.167	0.764	0.121
	AAC 4/0 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)*

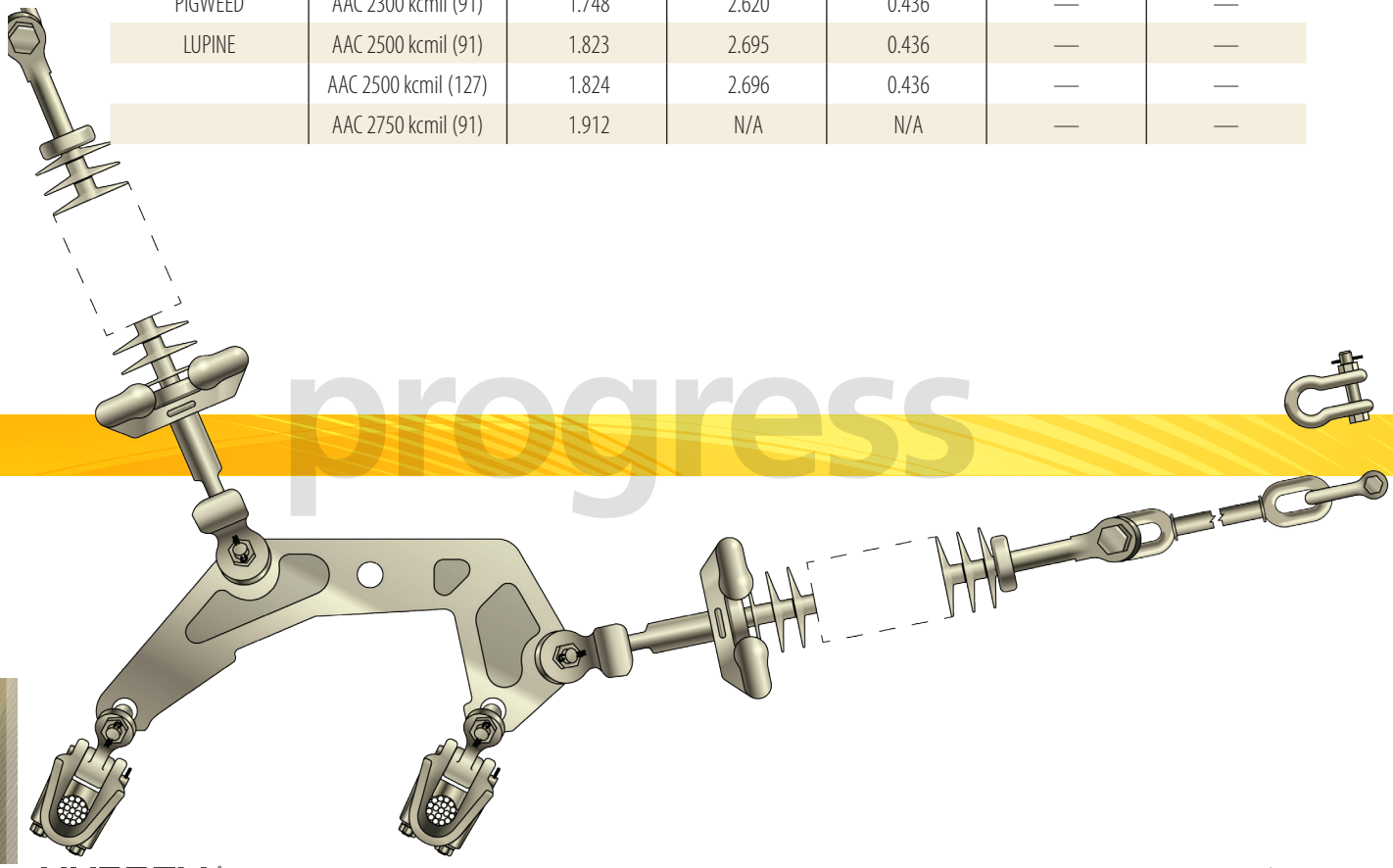
Conductor Data

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
	AAC 700 kcmil (61)	0.964	1.464	0.250	1.328	0.182
VIOLET	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
	AAC 1510.5 kcmil (61)	1.417	2.289	0.436	2.037	0.310
COREOPSIS	AAC 1590 kcmil (61)	1.454	2.326	0.436	2.074	0.310
	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
	AAC 1700 kcmil (127)	1.504	2.376	0.436	2.124	0.310
	AAC 1750 kcmil (127)	1.526	2.398	0.436	—	—
	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	—	—
	AAC 2250 kcmil (91)	1.729	2.601	0.436	—	—
PIGWEED	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	—	—



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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 Type16	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)*

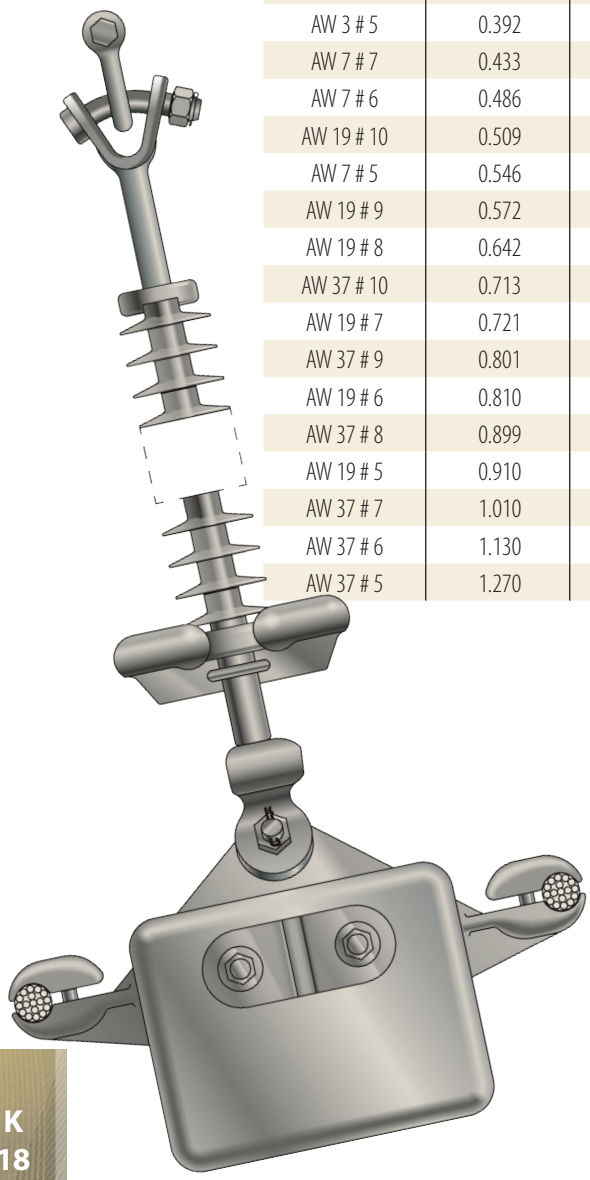
Conductor Data

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 Type13	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 5⁄16" str (3)	0.312	0.512	0.100
AW 3 # 8	0.277	0.505	0.114	EHS 5⁄16" str (7)	0.312	0.512	0.100
AW 7 # 10	0.306	0.534	0.114	EHS 5⁄16" str (7)	0.312	0.512	0.100
AW 3 # 7	0.311	0.539	0.114	EHS ⅜" str (3)	0.360	0.560	0.100
AW 7 # 9	0.343	0.571	0.114	EHS ⅜" str (7)	0.360	0.560	0.100
AW 3 # 6	0.349	0.577	0.114	EHS 7⁄16" 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 9⁄16" str (7)	0.562	—	—
AW 7 # 6	0.486	0.689	0.128	EHS 9⁄16" str (19)	0.562	—	—
AW 19 # 10	0.509	0.742	0.128	EHS ⅝" str (7)	0.625	—	—
AW 7 # 5	0.546	0.797	0.144	EHS ⅝" str (19)	0.625	—	—
AW 19 # 9	0.572	0.834	0.144	EHS 11⁄16" str (19)	0.688	—	—
AW 19 # 8	0.642	—	—	EHS ¾" str (19)	0.750	—	—
AW 37 # 10	0.713	—	—	EHS 13⁄16" str (19)	0.813	—	—
AW 19 # 7	0.721	—	—	EHS ⅞" str (19)	0.875	—	—
AW 37 # 9	0.801	—	—	EHS 15⁄16" 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 1 1⁄16" str (37)	1.063	—	—
AW 37 # 7	1.010	—	—	EHS 1⅛" str (37)	1.125	—	—
AW 37 # 6	1.130	—	—	EHS 1 3⁄16" 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.

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