

ClampStar® THE BEST METHOD TO PERMANENTLY UPRATE & PROTECT OVERHEAD CONNECTIONS



CSR-1631-048 SPECS

- 1272 kcmil - 1780 kcmil Conductor Range
- 1.345-1.631 inches (34.2- 41.4 mm)
- Overall Length: 102"

ClampStar® CSR-1631-048

ClampStar® Uprate transmission lines and prevent power outages due to failed connectors while creating a safer, more reliable smart grid.

ClampStar® model #CSR-1631-060 is designed to protect and thermally uprate connectors to meet n-1 contingency conditions as well as continuous service on overhead transmission lines with Aluminum and ACSR type conductors sized from 1272 Bittern to 1780 Chukar and up through 2000 kcmil Cowslip AAC. Each unit is prefilled with our proprietary CC² inhibitor to prevent galvanic corrosion and is designed with an integral fastening assembly containing a specially designed, captive keeper assemblage that provides a high conductivity path and incorporates flat and Belleville washers to maintain compressive force regardless of temperature induced contraction and expansion. Additionally, they're equipped with a 70 lbf/ft torque, shear head feature which can be driven with either a 3/4" socket, or a T60 Torx type bit, and if required, can be removed with a T45.

ClampStar shunts provide an excellent solution for permanent mechanical and electrical upgrade to existing conductor connections. And ClampStar helps meet NERC's maximum conductor operating temperature requirements without costly replacement, repair or expensive downtime. Additional sizes are available for splices, suspension clamps, deadends, and damaged conductor repair. ClampStar units are designed for use on ACSR, AAC, AAAC, ACAR, ACSS & Fiber composite core. ClampStar units are also available for use on copper conductors.

ClampStar® IS EASY TO INSTALL

This new lighter weight, three piece design consists of a main ClampStar body weighing less than 20 lbs. and two individual 10 lb. Keeper Shoes which allows for an easy hot stick installation.

- Installs in **less than 10 minutes** on energized lines
- Decreases total installation time by 70 - 80%
- Easily Installs over existing connectors
- No mechanical grips, Come-Alongs, jumper cables or cutters needed
- Installs with a hot stick or barehand



CALL **800.269.1462** TODAY

Visit www.ClampStar.com/bro for a free white paper "Automatic Splices - The Inside story"



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382 Park Ave. East, Mansfield, OH 44905

ClampStar® DATA CHART

CS R - 1108 - 030
 ClampStar R = Rigid Rail F = Flexible Rail S = Single Rail
 Nominal maximum conductor diameter in inches (ex. 1.108)
 Inside frame clearance in inches (ex. .30")

| Frame | ClampStar® Part # | Conductor Diameter Range | | Keeper # per side | Average Weight | | Overall Length | | |
|----------|-------------------|----------------------------------|---------------|-------------------|----------------|------|----------------|--------|-------|
| | | Conductor Range (ACSR Reference) | Inches | | mm | Lbs | Kg | inches | cm |
| RIGID | CSR-0325L-007*** | #6 AWG - #2 AWG | 0.162 - 0.325 | 4.11 - 8.3 | 1 | 1.75 | .79 | 12 | 30.5 |
| | CSR-0325-015 | #6 AWG - #2 AWG | 0.162 - 0.325 | 4.11 - 8.3 | 2 | 3 | 1.4 | 26.38 | 67 |
| | CSR-0609-024 | #2 AWG - 266.8 kcmil | 0.316 - 0.609 | 8.0 - 15.5 | 2 | 7 | 3.2 | 43 | 109.2 |
| | CSR-0642L-024*** | 2/0 AWG - 266.8 kcmil | 0.398 - 0.642 | 10.1 - 16.3 | 2 | 7 | 3.2 | 43 | 109.2 |
| | CSR-0883L-024*** | 3/0 AWG - 477 kcmil | 0.502 - 0.883 | 12.8 - 22.4 | 2 | 13 | 5.9 | 44.0 | 111.8 |
| | CSR-0883-036 | 3/0 AWG - 477 kcmil | 0.502 - 0.883 | 12.8 - 22.4 | 3 | 18 | 8.2 | 59.5 | 151.1 |
| | CSR-1108L-024*** | 336.4 kcmil - 795 kcmil | 0.684 - 1.108 | 17.4 - 28.1 | 2 | 15 | 6.8 | 44 | 111.8 |
| | CSR-1108-040 | 336.4 kcmil - 795 kcmil | 0.684 - 1.108 | 17.4 - 28.1 | 4 | 24 | 10.9 | 78.8 | 200.1 |
| | CSR-1631-048 | 1272 kcmil - 1780 kcmil | 1.345 - 1.631 | 34.1 - 41.5 | 20 | 36 | 16.4 | 102 | 2591 |
| FLEXIBLE | CSF-0642-036 | 2/0 AWG - 266.8 kcmil | 0.398 - 0.642 | 10.1 - 16.3 | 3 | 13 | 5.9 | 65 | 165.1 |
| | CSF-0883-036 | 3/0 AWG - 477 kcmil | 0.502 - 0.883 | 12.8 - 22.4 | 3 | 22 | 10.0 | 65.5 | 166.4 |
| | CSF-1108-040 | 336.4 kcmil - 795 kcmil | 0.684 - 1.108 | 17.4 - 28.1 | 4 | 28 | 12.7 | 79 | 200.7 |
| | CSF-1302-048 | 715.5 kcmil - 1272 kcmil | 1.036 - 1.345 | 26.3 - 34.1 | 5 | 39 | 17.7 | 99 | 251.5 |
| SINGLE * | CSS-0642L-036 | 2/0 AWG - 266.8 kcmil | 0.398 - 0.642 | 10.1 - 16.3 | 2 | 9 | 4.1 | 55.6 | 141.2 |
| | CSS-0642-036 | 2/0 AWG - 266.8 kcmil | 0.398 - 0.642 | 10.1 - 16.3 | 3 | 12 | 5.4 | 65 | 165.1 |
| | CSS-0883-040 | 3/0 AWG - 477 kcmil | 0.502 - 0.883 | 12.8 - 22.4 | 3 | 20 | 9.1 | 69.5 | 176.5 |
| | CSS-1108-048 | 336.4 kcmil - 795 kcmil | 0.684 - 1.108 | 17.4 - 28.1 | 4 | 28 | 12.7 | 87 | 221 |
| | CSS-1302-060 | 715.5 kcmil - 1780 kcmil | 1.036 - 1.602 | 26.3 - 40.7 | 5 | 40 | 18.2 | 111 | 282 |
| | CSS-1631-066 | 1272 kcmil - 1780 kcmil | 1.345 - 1.631 | 34.1 - 41.5 | 20 | 35 | 15.9 | 120 | 304.8 |

| Inhibitor | |
|-----------|--|
| CC2-8 | CC ² Inhibitor - 8 ounce bottle |

| Corona Shield | |
|---|--|
| CSC-0883-230 CSC-1302-345** CSC-0883-345 CSC-XXXX-500 | **Same shield is used for 230 and 345 kV applications. |

| Torque Nuts | | |
|----------------|---|--|
| Part Number | Description | Wrenches |
| TNHH-500 | Zinc housing over HDG steel nut 1/2-13 thread, 40 ft-lb nominal | Install with 3/4" socket. Remove with 15/16" deep-well socket |
| TNHH-500-55 | Zinc housing over HDG steel nut 1/2-13 thread, 55 ft-lb nominal | |
| TNHH-500-SS | Zinc housing over Stainless Steel nut 1/2-13 thread, 40 ft-lb nominal | |
| TNHH-500-55-SS | Zinc housing over Stainless Steel nut 1/2-13 thread, 55 ft-lb nominal | |
| TNHH-375 | Zinc housing over HDG steel nut 3/8-16 thread, 25 ft-lb nominal | Install with 9/16" socket. Remove with 3/4" deep-well socket |
| TNHH-375-SS | Zinc housing over Stainless Steel nut 3/8-16 thread, 25 ft-lb nominal | |

* CSS units can be used for suspension clamp and deadend applications. They may be ordered with tether and related hardware depending on application, which affects the weight of the overall unit.

*** LIGHT Version for AAC and low tension/short span applications.

**** Last three digits in part number designate the inside frame clearance in inches. Standard clearance lengths are shown and special lengths are available. For non-standard lengths, insert the desired clearance length as 3 digits following the part number expressed as inches; i.e., 044 = 44 inches, 068 = 68 inches, and 108 = 108 inches. Example: CSF-1108-044.

***** Overall lengths, weights and prices are for units with standard inside frame clearance. To determine the overall length of units with special frame clearance, adjust the standard overall length shown by the difference in standard and special inside frame clearances.

For larger or custom sizes, please consult the factory. To view a complete listing of our products and pricing visit www.classicconnectors.com

NOTE 1: For use on copper conductors, add "-P" to the Part Number to obtain the unit with plated keepers. Example: CSR-0325L-007-P.

NOTE 2: Although larger ClampStar units will fit smaller conductor diameters, it is more cost effective to use the smallest ClampStar possible for each specific application. For the most accurate ClampStar selection, use the Max. Conductor Diameter instead of ACSR range to determine the correct ClampStar for your particular application. As always, please feel free to consult the factory for additional information.

NOTE 3: Safe-T-Link SST tether assemblies are available for applications requiring additional mechanical support - contact factory for additional information.

NOTE 4: To order ClampStar units with stainless steel hardware add "-SS" to the Part Number. Example: CSR-0325-015-SS



ON MY WATCH - WHEN IT COMES TO
SAFETY & RELIABILITY
 I'LL REMOVE ALL DOUBT WITH **ClampStar®**



CALL **800.269.1462** TODAY