

# 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 CC<sup>2</sup> 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](http://www.ClampStar.com/bro) for a free white paper "Automatic Splices - The Inside story"



[ClassicConnectors.com](http://ClassicConnectors.com)



[info@ClassicConnectors.com](mailto:info@ClassicConnectors.com)



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 <sup>2</sup> 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](http://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