

25kV Cold Shrink R-800

Product Data Sheet

The Cold Shrink R-800 (CS8 Series) is an innovative blend of the Richards CSH Series and R-800. Like the traditional R-800, the CS8 Series is molded with a 200A Loadbreak Tap integral to the Deadbreak Elbow housing. Its cold shrinkable cable entrance eliminates the need for a cable adapter and separate jacket seal kit. By combining so many components into a single housing, the CS8 series is perfectly optimized for simplicity and reliability.

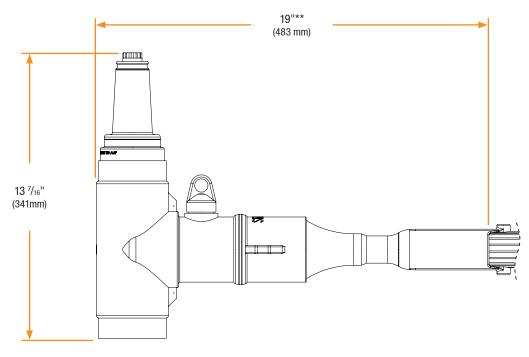
The Cold Shrink R-800 is equipped with a stainless steel Fastener, a specialized internal component that is engaged by assembly tool to torque the assembly of R-800, Lug and mating component. These fasteners are available in several types designed to provide configurations to meet every application.



Features

- Combines 200A Loadbreak tap and Deadbreak Elbow
- Available in multiple configurations to meet every application
- Includes installation tool that guarantees proper torque*
- Reduces inventory and installation costs
- Range Taking
- 100% EPDM Composition
- Designed, Molded, and Tested in the USA
- Optional Capacitive Test Point
- * Applies to R-800's with 3/8" fasteners only.

Basic Dimensions



* Approximate length - varies by cable size.



25kV Cold Shrink R-800

Product Ratings

Voltage Ratings				
Maximum Voltage Rating – (phase to ground)	15.2kV			
Corona Voltage Level – (partial discharge extinction voltage)	21kV 🖳			
AC Withstand – (1 minute)	40kV			
Impulse-Withstand Voltage – (BIL)	125kV BIL			

Current Ratings (Deadbreak Side)			
Continuous – (Aluminum)	600A		
Continuous – (Copper)	900A		
Short-Time Current – (Aluminum)	40kA, 10c. and 10kA, 3s. 🖳		
Short-Time Current – (Copper)	40kA, 10c. and 10kA, 3s.		

Current Ratings (Loadbreak Side)			
Continuous	200A		
Short-Time Current	10kA, 10c. and 3.5kA, 3s.		

The 25kV Class Cold Shrink R-800 is qualified to the following industry standards:

- IEEE Std 386: For Separable Insulated Connector Systems
- ANSI C119.4: For Electric Connectors
- IEEE Std 592: For Exposed Semiconducting Shields

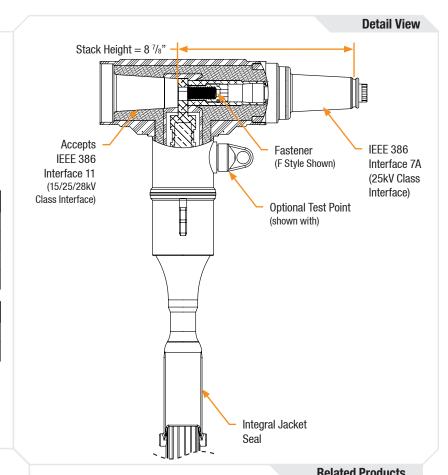
Production Testing

IEEE requires a Partial Discharge test and choice between AC withstand and Impulse.

Richards runs 3/3 tests on **all** Medium Voltage products governed by IEEE 386.

100% Routine Electrical Test:

- Partial Discharge
- AC Withstand
- Impulse Withstand



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P625HIP-STUD 15/25kV Aluminum Threaded Stud	P925HIP-STUD 15/25kV Copper Threaded Stud
P6AL-X Aluminum Compression Lug	P9CU-X Copper Compression Lug
P6ALR-X Aluminum Range Taking Lug	P7ALCU-X Copper-Top Compression Lug
22LBICG 25kV Loadbreak Insulating Cap	



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Use Range-CS8 Table

The following product sizing information is based on AEIC/ICEA dimensional ranges. The true range of the CS8 Series on a particular cable construction may vary. To confirm sizing on non-standard cables, or to check sizing on cables that fall just outside our min or max, contact the factory.

Elbow Size	Voltago Clasa	Conductor Size			
	Voltage Class	Minimum	Maximum		
0	15kV (175 mil)	1/0 AWG*	500 kcmil		
Minimum Insulation	15kV (220 mil)	#2 AWG**	300 Kellili		
Diameter = 0.725"	25kV (260 mil)	#4 AWG	350 kcmil		
Р	15kV (175/220 mil)	350 kcmil***			
Minimum Insulation Diameter = 0.990"	25kV (260 mil)	4/0 AWG	750 kcmil		
Q	15kV (175 mil)	750 kcmil			
Minimum Insulation Diameter = 1.268"	15kV (220 mil)	600 kcmil	1500 kcmil		
	25kV (260 mil)	500 kcmil****			

^{*} May not fit some 1/0 AWG compressed/compact 100% (175mil) insulated power cables. Check minimum insulation diameter to confirm.

R-800 Fastener Styles

Currently Using:	Upgrade to R-800 Type:	Installation Torque	Tool Size	Lug	Stick Operable*	Male or Female**	One-Piece Design
Elbow Tap Plug (ETP) or Bushing Insert + Reducing Tap Well	F or H	55 ft-lbs	3/8"	Regular	No	- Female	Yes
T-OP II	G	20 ft-lbs	5/16"	15/16" Hole	Yes		

^{*} Stick operability is defined here as the ability to remove the R-800 from the bushing without the assembly of R-800/Cable/Lug being separated.

^{**} May not fit some #2 AWG compact 133% (220 mil) insulated power cables. Check minimum insulation diameter to confirm.

^{***} May not fit some 350 kcmil compact 100% (175 mil) insulated power cables. Check minimum insulation diameter to confirm.

^{****} May not fit some 500 kcmil compact insulated power cables. Check minimum insulation diameter to confirm.

^{**} Female R-800's come with a loose threaded stud. Male R-800's have the threaded stud built into the fastener.