

CSJA Cold Shrinkable Joint for in-line polymeric insulated cables

Tyco Electronics introduces the Raychem "All-in-One" CSJA cold shrinkable joint for 15kV and 25/28kV cables. It is designed to splice tape shield, wire shield, LC shield, UniShield, flat strap, jacketed concentric neutral (JCN) and concentric neutral (CN) cables.

Features

- Pre-expanded, single piece silicone rubber joint body with high mechanical expansion capability allows a wide application range.
- The single cable joint has a pre-expanded EPDM rejacketing sleeve and an integrated neutral sock. This "All-in-One" design is easy to install with minimal steps and short installation time.
- An ergonomically designed spiral holdout gives a smooth installation with low release forces.
- Total length of the splice body on the holdout is 14 inches providing a compact design.
- The silicone rubber body provides high dielectric strength, high tear strength, low tension set and excellent low temperature recovery.
- Excellent electrical stress control by factory molded stress cones and Faraday cage.
- Void filling stress relief mastics are not necessary.
- Proven shield continuity concept.
- The joint accepts both mechanical and compression connectors.
- Meets IEEE-404 requirements for 15 and 25/28kV.





Kit can be ordered with copper mechanical ShearBolt connector.

Test Data

EDR-5430 - Qualification testing of the CSJA 25/28 kV series cold shrink joint to IEEE-404.

Each joint is factory tested to include AC withstand and partial discharge to ensure integrity of the installation in accordance to IEEE-404.

tyco

Electronics

8000 Purfoy Road
Fuquay Varina, NC 27526-9349
Tel: 800.327.6996
Fax: 800.527.8350
E-mail: naenergy@tycoelectronics.com
http://energy.tycoelectronics.com/csja
www.tycoelectronics.com

a vital part of your world

© 2006, 2007 Tyco Electronics Corporation
8-1773445-0 E258 2/07

Complete product portfolio - only items in bold are currently available.

Selection information: Dimensions in inches (millimeters).

CSJA Joint Without Connector

Voltage Class	Catalog number	Nominal Cable range	Min/Max Insulation OD	Min/Max Jacket OD	Connector dimensions OD	Length
In-line splices for 1/C jacketed concentric neutral cable (JCN)						
15kV	CSJA-1511	#1-350	0.72 - 1.19	(18.20 - 30.4)		
15kV	CSJA-1512	4/0-500	0.87 - 1.40	(22.10 - 35.6)	1.22 - 1.81 (31.0 - 46.0)	1.50 (38) 5.5 (140)
15kV	CSJA-1514	600-1000	1.28 - 1.93	(32.50 - 49.2)		
25/28kV	CSJA-2812	#1-350	0.87 - 1.40	(22.10 - 35.6)	1.22 - 1.81 (31.0 - 46.0)	1.50 (38) 5.5 (140)
25/28kV	CSJA-2814	500-1000	1.28 - 1.93	(32.50 - 49.2)		
35kV	CSJA-3513	1/0-350	0.97 - 1.47	(24.70 - 37.6)		
35kV	CSJA-3514	250 - 750	1.28 - 1.93	(32.50 - 49.2)		
35kV	CSJA-3515	600 - 1000	1.54 - 2.35	(39.00 - 60.0)		

In-line splices for 1/C tape, wire, unshield, LC and flat strap shielded cable

15kV	CSJA-1521	#1-350	0.72 - 1.19	(18.20 - 30.4)		
15kV	CSJA-1522	4/0-750	0.87 - 1.50	(22.10 - 38.0)	1.22 - 1.81 (31.0 - 46.0)	1.50 (38) 5.5 (140)
15kV	CSJA-1524	600-1000	1.28 - 1.93	(32.50 - 49.2)		
25/28kV	CSJA-2822	#1-500	0.87 - 1.50	(22.10 - 38.0)	1.22 - 1.81 (31.0 - 46.0)	1.50 (38) 5.5 (140)
25/28kV	CSJA-2824	500-1000	1.28 - 1.93	(32.50 - 49.2)		
35kV	CSJA-3523	1/0 - 350	0.97 - 1.47	(24.70 - 37.6)		
35kV	CSJA-3524	250 - 750	1.28 - 1.93	(32.50 - 49.2)		
35kV	CSJA-3525	600 - 1000	1.54 - 2.35	(39.00 - 60.0)		

CSJA Joint With Copper Mechanical ShearBolt Connector

Voltage Class	Catalog Number	Nominal Cable range	Min/Max Insulation OD	Min/Max Jacket OD	Diameter over Cable conductor *
In-line splices for 1/C jacketed concentric neutral cable (JCN)					
15kV	CSJA-1511M1	2/0-350	0.72 - 1.19	(18.20 - 30.4)	
15kV	CSJA-1512M1	4/0-500	0.87 - 1.40	(22.10 - 35.6)	0.376 - 0.736 (9.50 - 18.7)
15kV	CSJA-1514M2	600-750	1.28 - 1.93	(32.50 - 49.2)	
25/28kV	CSJA-2812M1	2/0-500	0.87 - 1.40	(22.10 - 35.6)	0.376 - 0.736 (9.50 - 18.7)
25/28kV	CSJA-2814M2	500-750	1.28 - 1.93	(32.50 - 49.2)	
35kV	CSJA-3513M1	2/0 - 350	0.97 - 1.47	(24.70 - 37.6)	
35kV	CSJA-3514M2	350 - 750	1.28 - 1.93	(32.50 - 49.2)	

In-line splices for 1/C tape, wire, unshield, LC and flat strap shielded cable

15kV	CSJA-1521M1	2/0-350	0.72 - 1.19	(18.20 - 30.4)	
15kV	CSJA-1522M1	4/0-500	0.87 - 1.50	(22.10 - 38.0)	0.376 - 0.736 (9.50 - 18.7)
15kV	CSJA-1522M2	350-750	0.87 - 1.50	(22.10 - 38.0)	0.570 - 0.945 (14.5 - 24.0)
25/28kV	CSJA-2822M1	2/0-350	0.87 - 1.50	(22.10 - 38.0)	0.376 - 0.736 (9.50 - 18.7)
25/28kV	CSJA-2824M2	500-750	1.28 - 1.93	(32.50 - 49.2)	
35kV	CSJA-3523M1	2/0 - 350	0.97 - 1.47	(24.70 - 37.6)	
35kV	CSJA-3524M2	350 - 750	1.28 - 1.93	(32.50 - 49.2)	

The diameter over conductor is needed only for kits including Tyco Electronics connector.

CSJA Joint With Aluminum Mechanical ShearBolt Connector

Voltage Class	Catalog Number	Nominal Cable range	Min/Max Insulation OD	Min/Max Jacket OD	Diameter over Cable conductor *
In-line splices for 1/C jacketed concentric neutral cable (JCN)					
15kV	CSJA-1511M4	#1-350	0.72 - 1.19	(18.20 - 30.4)	
15kV	CSJA-1512M4	4/0-350	0.87 - 1.40	(22.10 - 35.6)	0.268 - 0.681 (6.8 - 17.3)
15kV	CSJA-1512M5	350-500	0.87 - 1.40	(22.10 - 35.6)	0.616 - 0.998 (15.7 - 25.4)
15kV	CSJA-1514M6	600-1000	1.28 - 1.93	(32.50 - 49.2)	
25/28kV	CSJA-2812M4	#1-350	0.87 - 1.40	(22.10 - 35.6)	0.268 - 0.681 (6.8 - 17.3)
25/28kV	CSJA-2814M5	500-750	1.28 - 1.93	(32.50 - 49.2)	
25/28kV	CSJA-2814M6	600-1000	1.28 - 1.93	(32.50 - 49.2)	
35kV	CSJA-3513M4	1/0 - 350	0.97 - 1.47	(24.70 - 37.6)	
35kV	CSJA-3514M5	350 - 750	1.28 - 1.93	(32.50 - 49.2)	
35kV	CSJA-3515M6	600 - 1000	1.54 - 2.35	(39.00 - 60.0)	

In-line splices for 1/C tape, wire, unshield, LC and flat strap shielded cable

15kV	CSJA-1521M4	#1-350	0.72 - 1.19	(18.20 - 30.4)	
15kV	CSJA-1522M4	4/0-350	0.87 - 1.50	(22.10 - 38.0)	0.268 - 0.681 (6.8 - 17.3)
15kV	CSJA-1522M5	350-750	0.87 - 1.50	(22.10 - 38.0)	0.616 - 0.998 (15.7 - 25.4)
15kV	CSJA-1524M6	600-1000	1.28 - 1.93	(32.50 - 49.2)	
25/28kV	CSJA-2822M4	#1-350	0.87 - 1.50	(22.10 - 38.0)	0.268 - 0.681 (6.8 - 17.3)
25/28kV	CSJA-2824M5	500-750	1.28 - 1.93	(32.50 - 49.2)	
25/28kV	CSJA-2824M6	600-1000	1.28 - 1.93	(32.50 - 49.2)	
35kV	CSJA-3523M4	1/0 - 350	0.97 - 1.47	(24.70 - 37.6)	
35kV	CSJA-3524M5	350 - 750	1.28 - 1.93	(32.50 - 49.2)	
35kV	CSJA-3525M6	600 - 1000	1.54 - 2.35	(39.00 - 60.0)	

The diameter over conductor is needed only for kits including Tyco Electronics connector.

Selections are based on the typical dimensions of 100% insulation (15kV; 175mils, 25kV; 260mils, 28kV; 280mils) for standard AIEC cables.

Cold-Applied External Grounding Kit

Catalog Number	Length of Moisture Blocked Braid	Braid
CSJ-EG-1	24" (610mm)	#6 AWG (13mm²)

Use CSJ-EG-1 to externally ground the CSJA kits.

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale. UniShield is a trademark of BICC Industries Ltd.

Energy Division – a pioneer in the development of economical solutions for the electrical power industry. Our product range includes: Cable accessories, connectors & fittings, electrical equipment, instruments, lighting controls, insulators & insulation enhancement and surge arresters.