



## COLD SHRINK STRAIGHT JOINTS (CSJT) FOR SINGLE AND THREE-CORE POLYMERIC INSULATED CABLES UP TO 52 kV

### KEY FEATURES

- Single piece silicone rubber joint, pre-expanded on a well-known and easy-to-install holdout system
- High mechanical expansion capability allows a wide application range
- Effective electrical stress control on the screen cut areas by integrated conductive geometrical stress cones
- Mechanical shear bolt connector or compression connector can be supplied with the kit
- Excellent resistance to splitting and permanent set

TE Connectivity's (TE) Raychem CSJT joints offer a fast and easy-to-install jointing system to assure and maintain high power network reliability. The joints are designed to cover a wide range of applications and accommodate a variety of cable and conductor types.

The silicon rubber body of CSJT is made of high performance liquid silicone material which is specially formulated for excellent tracking and split resistance.

TE's mechanical connector ensures a reliable connection of different conductor materials in today's network. Its preset shear torque of the bolts and special designed surface ensures the correct contact pressure and effectiveness of electrical connection. All connectors meet the criteria of IEC-61238-1 class A and GB 9327.

TE also provides multiple options for application in harsh environment, such as with TE's Raychem CRSM heat-shrink wraparound to enhance reliability for longer service time under water, or with TE's Raychem RFPT self-adhesive inflaming retarding tape to reinforce fire-resistance capacity, or with fast and easily filled resin outer sealing and protection system to provide effective water and impact resistance.

**Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.**

## Cold Shrink Straight Joints (CSJT)



PRODUCT SELECTION INFORMATION					
Voltage class	Kit Description	Application Range (mm <sup>2</sup> )	Diameter Over Insulation MIN (mm)	Diameter Over Insulation MAX (mm)	Diameter Over Sheath MAX (mm)
<b>8.7/15 (17.5) kV *without connector</b>					
1-core cable	CSJT-10-5015-SC	50 - 150	18	26	39
	CSJT-10-1830-SC	185 - 300	25.8	32.3	46
	CSJT-10-4063-SC	400 - 630	33	42.3	56.5
3-core cable	CSJT-10-2535	25 - 35	16	19	54
	CSJT-10-5015	50 - 150	18	26	72.7
	CSJT-10-1830	185 - 300	25.8	32.3	88
	CSJT-10-400	400	33	35.4	95
	CSJT-10-500	500	36.4	38.3	102
<b>12/20 (24) kV *without connector</b>					
1-core cable	CSJT-24-3595-SC	35 - 95	18	25.1	38
	CSJT-24-9518-SC	95 - 185	23.6	30	44
	CSJT-24-1840-SC	185 - 400	27.8	37.4	53
	CSJT-24-4063-SC	400 - 630	35	44.3	59
3-core cable	CSJT-24-3595	35 - 95	18	25.1	71
	CSJT-24-1230	120 - 300	25	34.3	93
	CSJT-24-400	400	35	37.4	99
	CSJT-24-500	500	38.4	40.3	107
<b>26/35(40.5)kV * with mechanical connector in the kit</b>					
1-core cable	CSJT-35-3570-SC-CN	35 - 70	28	33.4	48
	CSJT-35-9515-SC-CN	95 - 150	33.6	38.1	53
	CSJT-35-1830-SC-CN	185 - 300	37.8	44.3	60
	CSJT-35-400-SC-CN	400	45	47.4	63
	CSJT-35-500-SC-CN	500	48.4	50	69
	CSJT-35-630-SC-CN	630	52.4	54.3	73
3-core cable	CSJT-35-3570-CN	35 - 70	28	33.4	-
	CSJT-35-9515-CN	95 - 150	33.6	38.1	-
	CSJT-35-1830-CN	185 - 300	37.8	44.3	-
	CSJT-35-400-CN	400	45	47.4	-
	CSJT-35-500-CN	500	48.4	50	-
<b>27.5/52kV * with mechanical connector in the kit</b>					
1-core cable	CSJT-27.5-150-SC	150	39.4	40.8	48.9
	CSJT-27.5-185-SC	185	40.9	42.3	50.5
	CSJT-27.5-240-SC	240	43.1	44.5	52.9
	CSJT-27.5-300-SC	300	45.5	47.5	55
	CSJT-27.5-400-SC	400	48.6	50.6	58.3

The application range given in the table is based on polymeric insulated cable with stranded circular conductors according to GB 12706.2.3-2008 standard. Due to different conductor shape or dimensions and cable constructions, the minimum and maximum application range may be extendable.

### Test Reports

The products are type tested in accordance with GB 12706.4-2008 specifications.

APPLICATION RANGE (8.7/15 kV, 12/20 kV, 26/35 kV)		
Part Description	Application Range (mm <sup>2</sup> )	Mechanical Connector
BSM-25/95	25 - 95	
BSMB-35/150-K1	35 - 150	
BSMB-95/240-K1	95 - 240	
BSMB-120/300-K1	120 - 300	
BSMB-185/400-K1	185 - 400	
BSMB-500 MK2	500	
BSMB-630 MK2	630	

### FOR MORE INFORMATION: TE Technical Support Centers

USA:	+ 1 800 327 6996
Canada:	+ 1 (905) 475-6222
Mexico:	+ 52 (0) 55-1106-0800
Latin/S. America:	+ 54 (0) 11-4733-2200
France:	+ 33 380 583 200
UK:	+ 44 0870 870 7500
Germany:	+ 49 896 089 903
Spain:	+ 34 916 630 400
Italy:	+ 39 333 250 0915
Benelux:	+ 32 16 508 695
Russia:	+ 7 495-790 790 2-200
China:	+ 86 (0) 400-820-6015

[te.com/energy](http://te.com/energy)

© 2018 TE Connectivity. All Rights Reserved. EPP-2293-8/18

Raychem, TE Connectivity and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies. Other logos, product and Company names mentioned herein may be trademarks of their respective owners. While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this brochure are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

## CSJA

Raychem Medium Voltage All In One Cold Applied Cable Joints up to 36 kV

### FEATURES

- Joint body, earthing system and re-jacketing pre-expanded on one holdout system
- Single piece silicone rubber joint body with high mechanical expansion capability allows a wide application range
- Electrical stress control of the screen cut area by integrated conductive geometrical stress cones
- Electrical stress control of the connector area by an integrated screened connection area (Faraday cage)
- Short parking distance required
- Easy-to-install joint system with short installation time

### APPLICATION

- Suitable for polymeric non-armoured cables

### CONFORMS TO

- CENELEC and IEC standards

### Raychem medium voltage all in one cold applied cable joints up to 36 kV



Product name	Conductor size (mm <sup>2</sup> )	Product name
<b>12 kV</b>		
CSJA-12B/1XU-1XU	95 – 240	CJ7358-000
CSJA-12C/1XU-1XU	185 – 300	ON REQUEST
CSJA-12D/1XU-1XU	240 – 400	ON REQUEST
CSJA-12E/1XU-1XU	500 – 800	ON REQUEST
<b>24 kV</b>		
CSJA-24B/1XU-1XU	35 – 185	CJ7356-011
CSJA-24C/1XU-1XU	95 – 300	CL0759-011
CSJA-24D/1XU-1XU	185 – 400	ON REQUEST
CSJA-24E/1XU-1XU	400 – 630	CL0760-011
CSJA-24F/1XU-1XU	800 – 1000	CN3900-011
<b>36 kV</b>		
CSJA-36D/1XU-1XU	70 – 240	CL0758-000
CSJA-36E/1XU-1XU	240 – 630	CL0757-011
CSJA-36F/1XU-1XU	500 – 800	CN3899-011
<b>With mechanical connector</b>		
<b>12 kV</b>		
CSJA-12B/1XU-1XU-M	95 – 240	CJ7354-011
CSJA-12C/1XU-1XU-M	185 – 300	CF9870-011
CSJA-12D/1XU-1XU-M	240 – 400	CJ9876-000
CSJA-12E/1XU-1XU-M1	500	CJ9891-000
CSJA-12E/1XU-1XU-M2	630	CJ9892-011
<b>24 kV</b>		
CSJA-24B/1XU-1XU-M	35 – 150	CJ7360-011
CSJA-24C/1XU-1XU-M1	95 – 240	D41410-011
CSJA-24C/1XU-1XU-M2	120 – 300	CF9869-000
CSJA-24D/1XU-1XU-M	185 – 400	CJ9877-011
CSJA-24E/1XU-1XU-M1	500	ON REQUEST
CSJA-24E/1XU-1XU-M2	630	CJ9889-011
<b>36 kV</b>		
CSJA-36D/1XU-1XU-M	95 – 240	CL1172-011
CSJA-36E/1XU-1XU-M1	240 – 400	CL1171-011
CSJA-36E/1XU-1XU-M2	500	CJ9888-011
CSJA-36E/1XU-1XU-M3	630	CJ9887-011

### End seal kits

For CSJA 'D'	CSJ-EndSeal-Kit-C-GB02	CP8377-000
For CSJA 'E'	CSJ-Endseal-Kit-E-GB01	CS4125-000
For CSJA 'F'	CSJ-Endseal-Kit-F-GB04	CV5031-000

## CSJH

Raychem Medium Voltage Cold applied Straight Joints With Heat Shrink Protection up to 36 KV

### FEATURES

- Well proven WCSM high impact outer jacket
- Single piece silicone rubber joint body with high mechanical expansion capability allows a wide application range
- Electrical stress control of the screen cut area by integrated conductive geometrical stress cones
- Electrical stress control of the connector area by an integrated screened connection area (Faraday cage)
- Short parking distance required
- Easy-to-install joint system with short installation time

### APPLICATION

- Suitable for polymeric non-armoured cables

### CONFORMS TO

- CENELEC and IEC standards

### Raychem medium voltage cold applied cable joints with heat shrink outer jacket up to 36 kV



Product name	Conductor size (mm <sup>2</sup> )	Part number
<b>12 kV</b>		
CSJH-12B/1XU-1XU	95 – 240	ON REQUEST
CSJH-12C/1XU-1XU	185 – 300	ON REQUEST
CSJH-12D/1XU-1XU	240 – 400	ON REQUEST
CSJH-12E/1XU-1XU	500 – 800	ON REQUEST
CSJH-12B/3XU-3XU	95 – 240	ON REQUEST
CSJH-12C/3XU-3XU	185 – 300	ON REQUEST
<b>24 kV</b>		
CSJH-24B/1XU-1XU	35 – 185	ON REQUEST
CSJH-24C/1XU-1XU	95 – 300	703648-000
CSJH-24D/1XU-1XU	185 – 400	ON REQUEST
CSJH-24E/1XU-1XU	400 – 630	ON REQUEST
CSJH-24F/1XU-1XU	800 – 1000	ON REQUEST
CSJH-24B/3XU-3XU	35 – 185	ON REQUEST
CSJH-24C/3XU-3XU	95 – 300	ON REQUEST
<b>36 kV</b>		
CSJH-36D/1XU-1XU	70 – 240	ON REQUEST
CSJH-36E/1XU-1XU	240 – 630	CJ9512-011
CSJH-36F/1XU-1XU	500 – 800	ON REQUEST
<b>With Mechanical Connector</b>		
<b>12 kV</b>		
CSJH-12B/1XU-1XU-M	95 – 240	ON REQUEST
CSJH-12C/1XU-1XU-M	185 – 300	ON REQUEST
CSJH-12D/1XU-1XU-M	240 – 400	ON REQUEST
CSJH-12E/1XU-1XU-M1	500	ON REQUEST
CSJH-12E/1XU-1XU-M2	630	ON REQUEST
<b>24 kV</b>		
CSJH-24B/1XU-1XU-M	35 – 150	ON REQUEST
CSJH-24C/1XU-1XU-M1	95 – 240	ON REQUEST
CSJH-24C/1XU-1XU-M2	120 – 300	ON REQUEST
CSJH-24D/1XU-1XU-M	185 – 400	ON REQUEST
CSJH-24E/1XU-1XU-M1	500	ON REQUEST
CSJH-24E/1XU-1XU-M2	630	ON REQUEST
<b>36 kV</b>		
CSJH-36D/1XU-1XU-M	95 – 240	ON REQUEST
CSJH-36E/1XU-1XU-M1	240 – 400	ON REQUEST
CSJH-36E/1XU-1XU-M2	500	ON REQUEST
CSJH-36E/1XU-1XU-M3	630	ON REQUEST

## CSJT

Raychem Medium Voltage Cold Applied Cable Joints for 3-Core Cables with Resin Encapsulation to 24 kV

### FEATURES

- High impact plastic shell suitable for polyurethane resin
- Pre-expanded, single piece silicone rubber joint body with high mechanical expansion capability allows a wide application range
- Electrical stress control of the screen cut area by integrated conductive geometrical stress cones
- Electrical stress control of the connector area by an integrated screened connection area (Faraday cage)

### APPLICATION

- Suitable for polymeric non-armoured cables
- Fast and easily filled resin outer sealing and protection system providing effective impact resistance
- Hard-elastic polyurethane-type encapsulation with excellent insulation properties, hydrolytic stability and hydrophobic characteristics

### CONFORMS TO

- CENELEC and IEC standards

### Raychem medium voltage cold applied cable joints for 3-core cables with resin encapsulation to 24 kV



Product name	Conductor size (mm <sup>2</sup> )	Part number
<b>12 kV</b>		
CSJT-12B/3XU-3XU-H	95 – 240	CM2160-000
CSJT-12C/3XU-3XU-H	185 – 300	ON REQUEST
<b>24 kV</b>		
CSJT-24B/3XU-3XU-H	35 – 185	CM2162-011
CSJT-24C/3XU-3XU-H	95 – 300	ON REQUEST

#### NOTE

Joints exclude connectors and resin  
Other sizes/ voltages available on request

## CATJ

Raychem Medium Voltage Cold-Applied Transition Joints for 3 Core Paper to Polymeric Cables up to 36 kV

### FEATURES

- High impact plastic shell suitable for polyurethane resin
- Novel crutch filling and core sealing materials providing high-quality oil-blocking properties
- Single piece silicone rubber joint body with high mechanical expansion capability allows a wide application range
- Electrical stress control of the screen cut area by integrated conductive geometrical stress cones
- Electrical stress control of the connector area by an integrated screened connection area (Faraday cage)
- Short parking distance required
- Easy-to-install joint system with short installation time

### APPLICATION

- Suitable for polymeric Wire Armoured (SWA) cables

### CONFORMS TO

- CENELEC and IEC standards

### Raychem medium voltage cold applied transition joints, resin filled up to 36 kV



Product name	Conductor size (mm <sup>2</sup> )	Part number
<b>3-core MIND paper to single core polymeric</b>		
<b>12 kV</b>		
CATJ-12C/1XU-3SB	95 – 240	ON REQUEST
CATJ-12B/1XU-3SB	185 – 300	ON REQUEST
<b>24 kV</b>		
CATJ-24C/1XU-3SB	95 – 240	ON REQUEST
<b>36 kV</b>		
CATJ-36D/1XU-3SB	95 – 240	ON REQUEST
<b>3-core MIND paper to three core polymeric</b>		
<b>24 kV</b>		
CATJ-12C/3XU-3SB	95 – 240	ON REQUEST
CATJ-12B/3XU-3SB	185 – 300	ON REQUEST
<b>36 kV</b>		
CATJ-24C/3XU-3SB	95 – 240	ON REQUEST
<b>36 kV</b>		
CATJ-36D/3XU-3SB	95 – 240	ON REQUEST
MXAW-5151	500	CN6574-011
MXAW-5161	630	CN6572-011
<b>36 kV</b>		
SXAW-6122	50 – 95	CA5972-011
SXAW-6132	120 – 240	151361-011
SXAW-6142	300 – 630	814905-011
MXAW-6131	150 – 300	CV2754-011