



COLD SHRINK TERMINATION (CSTI/CSTO)

For Polymeric Insulated Cables
up to 42 kV

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Raychem terminations CSTI/O are designed to cover a wide range of applications and to accommodate the variety of cable and conductor types used in the networks. Range-taking, mechanical lugs ensuring reliable installation and service can be supplied with the kit.

Benefits

- Pre-expanded termination body with integrated stress control deflector and sealing mastic
- Single piece silicone termination body with optimal mechanical expansion ratio allows a wide application range
- The extra-long silicone stress cone is integrated with the termination and reduces positioning
- Moisture sealing at the lug is integrated
- Well-known and easy-to-install holdout system, rip cord pulling direction towards the lug not the bottom of the termination
- Easy to install in tight switchgear compartments
- Accommodates mechanical shear bolt lug and compression lug

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Mechanical shear bolt connectors

Raychem terminations CSTI/O can be provided with TE BLMT mechanical shear bolt lugs to ensure a reliable connection for different conductor materials, shapes and types used in today's network. The pre-set shear torque of the bolts ensures that the correct contact pressure is always achieved. The specially designed contact surface on the inside of the lug breaks up any oxide layer and ensures reliable service over the entire service life of the termination. Different sizes of mechanical lugs with wide application ranges are available. They have been tested in accordance with IEC-61238-1 class A.

The installation shear-head bolts can be ruptured manually by usage of ring spanner and or facilitated by the usage of a cordless impact wrench supplied (IT-1000-023).

Pre-expanded silicone termination body

The silicone termination body is delivered in a pre-expanded condition on a spiral holdout system. Silicone materials with excellent mechanical properties allow high expansion forces and therefore guarantee a wide application range. Integrated stress control deflector and sealing mastic on the top end of the termination provide exceptional electrical performance. The termination body can be easily removed from the spiral holdout with low release forces, particularly designed for termination applications.



Electrical stress control

Electrical stress control deflector is fully integrated within the silicone termination body. Conductive cone with an exactly defined geometrical design over the screen cut area provide excellent electrical stress control.

Cordless impact wrench

For the installation of mechanical connectors a cordless impact wrench is available. For more details see brochure EPP 1297.



Technical data

VOLTAGE CLASS	(kV)	6.35/11(12)	8.7/15(17.5)	12.7/22(24)	19/33(36)	20.8/36(42)
Cable Insulation Diameter	(mm)	13.7 - 40.0	15.7 - 50.0	17.9 - 52.0	24.5 - 58.8	24.5 - 60.8
Cross Section Range	(mm ²)	25 - 630	25 - 630	25 - 630	50 - 1000	50 - 1000
Max System Voltage U _m	(kV)	12	17.5	24	36	42
Basic Impulse Level	(kV)	95	95	125	195	200
Partial Discharge at 2 U ₀	(pC)	<2	<2	<2	<2	<2
AC Voltage Withstand, 5 min	(kV)	28.5	39	57	86	94
DC Voltage Withstand, 15 min	(kV)	38	52	76	114	114

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ORDERING INFORMATION

VOLTAGE CLASS	KIT DESCRIPTION	APPLICATION RANGE (mm ²)	DIAMETER OVER INSULATION MIN (mm)	DIAMETER OVER INSULATION MAX (mm)	DIAMETER OVER SHEATH MAX (mm)
6.35/11(12)kV					
Indoor	CSTI-3122-ML-1-13	25 - 95	13.7	20.8	22
	CSTI-3132-ML-4-13	95 - 240	20.8	28.4	34
	CSTI-3142-ML-6-17	300 - 400	28.4	33.6	50
	CSTI-3152-ML-7-17	500 - 630	34.0	40.0	58
Outdoor	CSTO-3122-ML-1-13	25 - 95	13.7	20.8	22
	CSTO-3132-ML-4-13	95 - 240	20.8	28.4	34
	CSTO-3142-ML-6-17	300 - 400	28.4	33.6	50
	CSTO-3152-ML-7-17	500 - 630	34.0	40.0	58
8.7/15(17.5)kV					
Indoor	CSTI-4122	25 - 95	15.7	22.8	22
	CSTI-4132	95 - 240	20.7	30.4	34
	CSTI-4142	300 - 400	29.9	35.6	50
	CSTI-4152	500 - 630	35.9	41.9	58
Outdoor	CSTO-4122	25 - 95	15.7	22.8	22
	CSTO-4132	95 - 240	20.7	30.4	34
	CSTO-4142	300 - 400	29.9	35.6	50
	CSTO-4152	500 - 630	35.9	41.9	58
12.7/22(24)kV					
Indoor	CSTI-5122-ML-1-13	25 - 95	17.9	25.0	34
	CSTI-5132-ML-4-13	95 - 240	25.0	32.0	50
	CSTI-5142-ML-6-17	300 - 400	32.6	37.8	58
	CSTI-5152-ML-7-17	500 - 630	42.6	49.2	58
Outdoor	CSTO-5122-ML-1-13	25 - 95	17.9	25.0	34
	CSTO-5132-ML-4-13	95 - 240	25.0	32.0	50
	CSTO-5142-ML-6-17	300 - 400	32.6	37.8	58
	CSTO-5152-ML-7-17	500 - 630	42.6	49.2	58
19/33(36)kV					
Indoor	CSTI-6122-ML-1-13	50 - 70	24.5	28.4	42
	CSTI-6132-ML-4-13	95 - 150	27.8	33.5	46
	CSTI-6142-ML-6-17	185 - 400	32.4	42.8	56
	CSTI-6152-ML-7-17	500 - 630	42.6	49.2	63
	CSTI-6162-ML-8-21	800 - 1000	49.2	58.8	75
Outdoor	CSTO-6122-ML-1-13	50 - 70	24.5	28.4	42
	CSTO-6132-ML-4-13	95 - 150	27.8	33.5	46
	CSTO-6142-ML-6-17	185 - 400	32.4	42.8	56
	CSTO-6152-ML-7-17	500 - 630	42.6	49.2	63
	CSTO-6162-ML-8-21	800 - 1000	49.2	58.8	75
20.8/36(42)kV					
Indoor	CSTI-7122-ML-1-13	50 - 70	27.4	31.4	42
	CSTI-7132-ML-4-13	95 - 150	29.9	36.5	48
	CSTI-7142-ML-6-17	185 - 400	34.5	46.6	59
	CSTI-7152-ML-7-17	500 - 630	44.8	51.2	65
	CSTI-7162-ML-8-21	800 - 1000	50.6	60.8	73
Outdoor	CSTO-7122-ML-1-13	50 - 70	27.4	31.4	42
	CSTO-7132-ML-4-13	95 - 150	29.9	36.5	48
	CSTO-7142-ML-6-17	185 - 400	34.5	46.6	59
	CSTO-7152-ML-7-17	500 - 630	44.8	51.2	65
	CSTO-7162-ML-8-21	800 - 1000	50.6	60.8	73

The application range given in the table is based on polymeric insulated cable according to CENELEC HD 620 A2 (2004) standard with stranded circular conductors. Trifurcation system available. Please contact your sales representative

Test reports

The products are type tested in accordance with CENELEC HD629.1.S2:2009 and CENELEC HD629.1.S3.draft:2015 specifications.

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FOR MORE INFORMATION: TE Technical Support Centers

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 16 351 731
USA:	+ 1 800 327 6996
Canada:	+ 1 (905) 475-6222
Mexico:	+ 52 (0) 55-1106-0800
Latin/S. America:	+ 54 (0) 11-4733-2200
China:	+ 86 (0) 400-820-6015