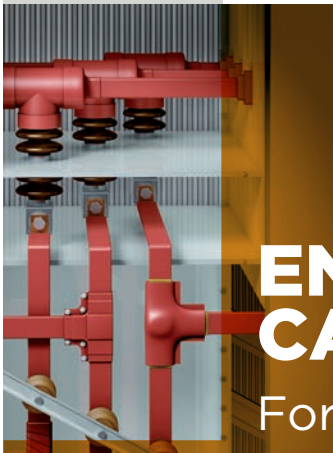




ENERGY PRODUCTS CATALOGUE

For Southeast Asia, Korea & Japan

GRID CONNECTIVITY + RELIABILITY

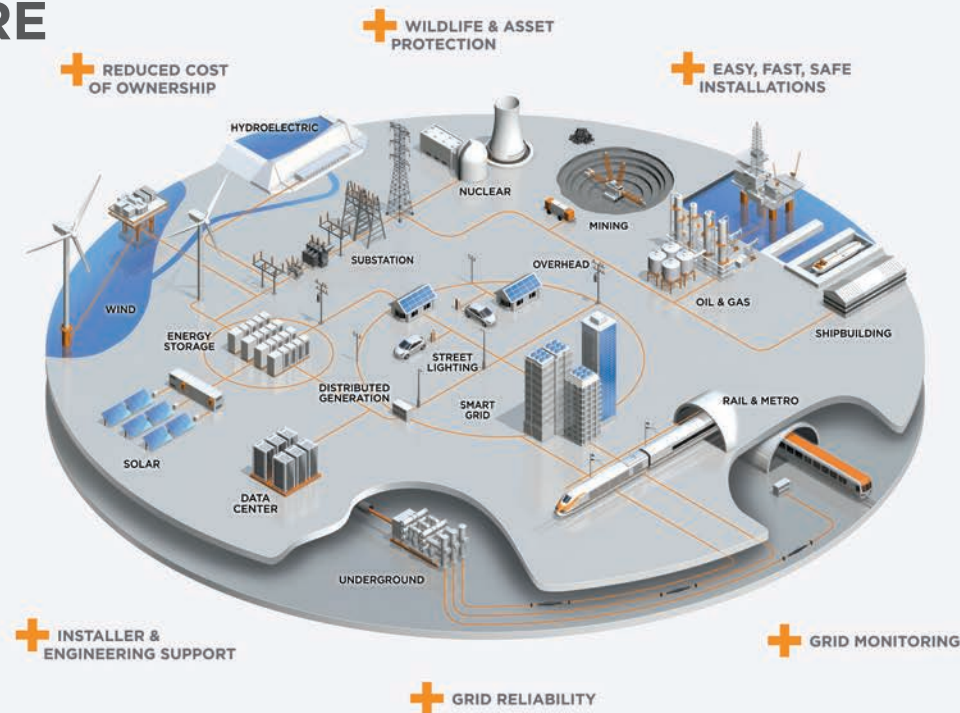
You're faced with daily challenges, like unforgiving environments, installation accuracy, constantly evolving technology, and animal-induced outages. We're ready to help. With over 60 years of electrical engineering experience and a global workforce dedicated to the Energy industry on a local level, we know how to make every connection count across the energy landscape.

+ EQUALS MORE

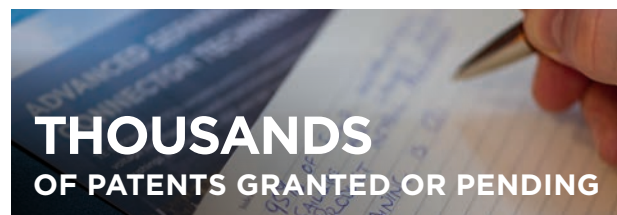
We're with you every step of the way to keep the backbone of your grid connected, from generation to transmission to distribution to wherever energy is needed.

Comprehensive solutions and services from a single partner:

- Cable Accessories
- Connectors & Fittings
- Insulation & Protection
- Metering
- Installation Training

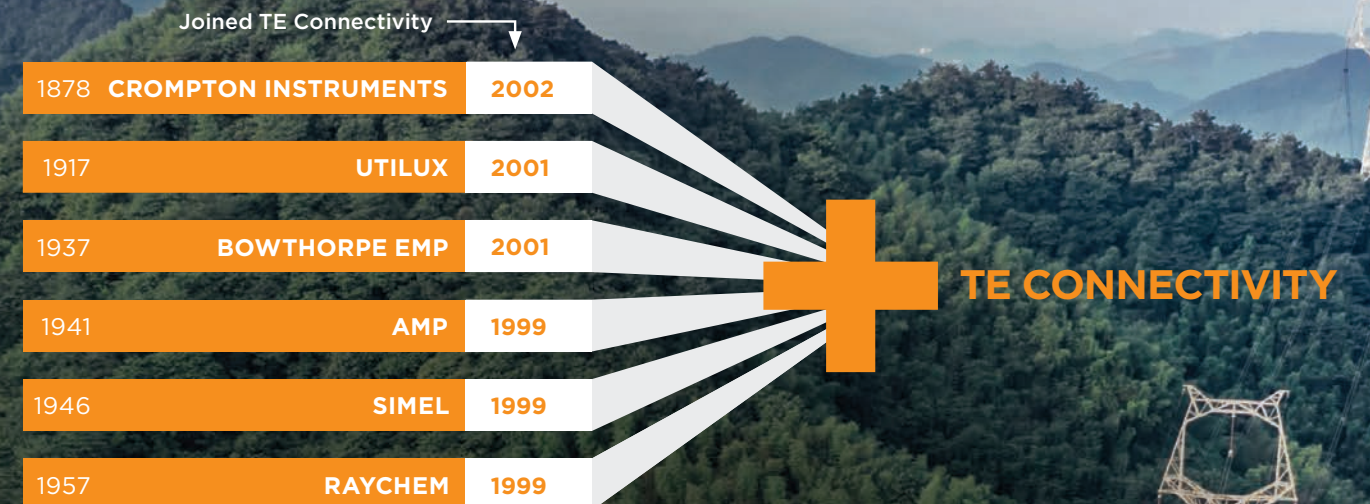


INNOVATION + COLLABORATION



WE ARE THE BRANDS YOU RELY ON

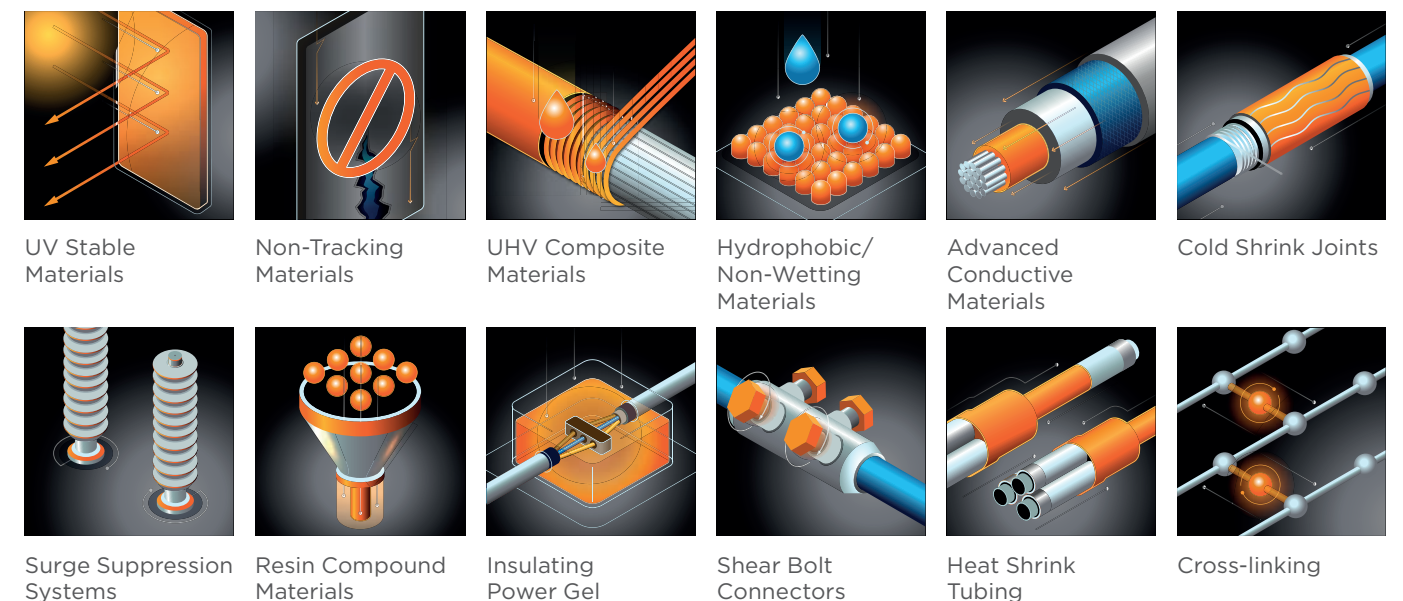
Our experience is built on the foundation of industry-leading quality brands, so if you know Raychem, you know TE Connectivity. We are the inventors of heat shrink technology, and we have nearly three decades of proven performance in cold-applied technologies.



EXTREMES + RELIABILITY

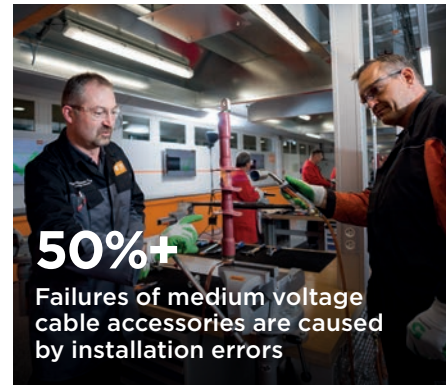
Frigid winters. Intense sun. Salinity. Conditions might get tough, but the power needs to stay on. That's why we are relentlessly dedicated to materials science and testing in our labs to deliver built-in reliability. You can trust our products to perform even in harsh environments, and to help protect your assets for their service lifetime.

MATERIAL INNOVATION

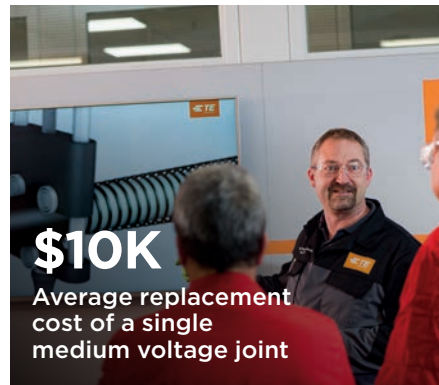


INSTALLING EXCELLENCE IN ENERGY NETWORKS

The right products alone don't ensure grid reliability. Correct installation is a key factor that determines long-term product performance and grid reliability. Network outages are a costly disruption and they can be prevented with proper training.



50%+
Failures of medium voltage cable accessories are caused by installation errors



\$10K
Average replacement cost of a single medium voltage joint



2500
Installers trained globally every year by TE

GLOBAL TRAINING EXPERTISE

Our training programs help installers realize the full potential of our reliable technology and serve as a valuable asset to your team – and to your network. We provide comprehensive product training from low, medium and high voltage cable accessories, to wildlife and asset protection products. We also offer customized programs for different applications: Underground, Overhead, Substation, Renewable Energy, Nuclear Power, Mining, Rail, Shipbuilding & Offshore.

Give your installers access to decades of expertise with customized programs that combine high-quality course content with practical, in-field applications.

AT OUR TRAINING CENTERS

- Modern locations around the world (USA, Germany, France, Russia, China)
- Training and assessment of your trainers
- Instruction from our Field Service Technicians, Product Managers and Electrical Engineering Experts

AT YOUR JOB SITE OR FACILITY

- Real-time failure investigation in the field
- Cost-effective refresher courses
- Training and assessment in familiar environments

AT OUR DISTRIBUTOR LOCATIONS

- Customized training events at distributor locations
- Dedicated training capabilities through selected partners

TRAINING COVERS A WIDE RANGE OF PRACTICAL TOPICS:

- Cable Construction
- Cable Preparation & Tips
- Modern Tools & Techniques
- Important Installation Considerations

TO SCHEDULE AN INFORMATION SESSION OR LEARN MORE:

Visit [TE.com/trainingcenter](https://te.com/trainingcenter) or contact your local sales team or distribution partner.

GLOBAL TESTING FROM ACCREDITED LABORATORIES

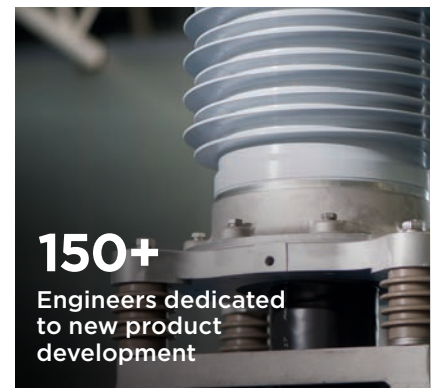
RIGOROUS TESTING AND RUGGED PRODUCTS ARE OUR STANDARD

Our ISO-17025 accredited engineering laboratories perform critical electrical, mechanical, and environmental tests in accordance with international quality testing standards as listed below. We place a special focus on customer-related testing and as your testing partner, we can perform accredited testing in 20+ competencies for a broad range of products up to 245 kV, such as connectors, insulators, wildlife and asset protection and cable accessories.



TESTING STANDARDS

IEEE, ANSI, ASTM, CENELEC, NEMA, DIN, EN, IEC, NF, EATS



150+

Engineers dedicated to new product development

OUR TESTING INCLUDES:

- High Voltage Testing
- Short Circuit Testing
- Temperature Rise Testing
- Material Testing
- Artificial Pollution Testing
- Robustness Testing



40+

Experts working in our engineering laboratories around the world

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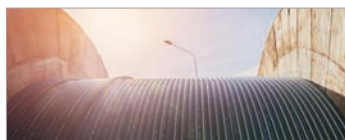
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Crompton
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RDSS Duct Sealing System

FEATURES

- Consists of an inflatable, sealed bladder of flexible, metallic laminate material, which has pre-installed, high-temperature sealant strips on both sides.
- The bladder is first inflated to 45 psi (three-bar) internal pressure, and then presses the sealant against the duct wall and onto the substrate.
- The bag uses a self-sealing gel material to seal the filling hole when the filling tube is removed

APPLICATIONS

- Designed for use in conjunction with plastic, concrete, or steel ducts to provide a watertight duct seal.
- Seals cable ducts and helps to prevent flooding in cable vaults, access manholes, substation basements, and customer feeds. It can be installed while the water is flowing —see photograph.

BENEFITS

- For applications with three or more cables, an RDSS-CLIP is inserted between the cables.
- The RDSS-CLIP is a high-temperature mastic mounted on an installation stick. It seals the area between the cables when used in conjunction with the RDSS inflatable bladder.
- Acceptable to use on medium voltage cables including unjacketed concentric neutral



Duct Inner Diameter	Number of Cables in Duct/ Max Cable Bundle Diameter					
	0, 1, or 2 Cables		3 or 4 Cables		5, 6, 7 Cables	
1.25 (32)	RDSS-45	0.5 (13)	RDSS-45, 1 RDSS-CLIP-45	0.3 (8)	RDSS-45, 2 RDSS-CLIP-45	0.1 (3)
1.50 (38)	RDSS-45	1.0 (25)	RDSS-45, 1 RDSS-CLIP-45	0.8 (20)	RDSS-45, 2 RDSS-CLIP-45	0.6 (15)
1.75 (45)	RDSS-45	1.3 (32)	RDSS-45, 1 RDSS-CLIP-45	1.05 (27)	RDSS-45, 2 RDSS-CLIP-45	0.9 (22)
2.00 (50)	RDSS-60	1.2 (30)	RDSS-60, 1 RDSS-CLIP-75	1.0 (25)	RDSS-60, 2 RDSS-CLIP-75	0.8 (20)
2.25 (57)	RDSS-60	1.6 (41)	RDSS-75, 1 RDSS-CLIP-75	1.4 (36)	RDSS-75, 2 RDSS-CLIP-75	1.2 (31)
2.50 (64)	RDSS-75	1.5 (38)	RDSS-75, 1 RDSS-CLIP-75	1.3 (33)	RDSS-75, 2 RDSS-CLIP-75	1.1 (28)
2.75 (70)	RDSS-75	1.8 (46)	RDSS-75, 1 RDSS-CLIP-75	1.6 (41)	RDSS-75, 2 RDSS-CLIP-75	1.4 (36)
3.00 (75)	RDSS-75	2.2 (56)	RDSS-75, 1 RDSS-CLIP-75	2.0 (50)	RDSS-75, 2 RDSS-CLIP-75	1.8 (46)
3.25 (83)	RDSS-100	2.2 (56)	RDSS-100, 1 RDSS-CLIP-100	2.0 (50)	RDSS-100, 2 RDSS-CLIP-100	1.8 (46)
3.50 (89)	RDSS-100	2.6 (66)	RDSS-100, 1 RDSS-CLIP-100	2.4 (61)	RDSS-100, 2 RDSS-CLIP-100	2.2 (56)
3.75 (95)	RDSS-100	2.9 (74)	RDSS-100, 1 RDSS-CLIP-100	2.7 (69)	RDSS-100, 2 RDSS-CLIP-100	2.5 (64)
4.00 (100)	RDSS-100	3.2 (80)	RDSS-100, 1 RDSS-CLIP-100	3.0 (75)	RDSS-100, 2 RDSS-CLIP-100	2.8 (70)
4.25 (108)	RDSS-100	3.5 (89)	RDSS-100, 1 RDSS-CLIP-100	3.3 (85)	RDSS-100, 2 RDSS-CLIP-100	3.1 (79)
4.50 (114)	RDSS-100	3.5 (89)	RDSS-100, 1 RDSS-CLIP-100	3.3 (85)	RDSS-100, 2 RDSS-CLIP-100	3.1 (79)
4.75 (121)	RDSS-125	3.8 (97)	RDSS-125, 1 RDSS-CLIP-125	3.6 (92)	RDSS-125, 2 RDSS-CLIP-125	3.4 (87)
5.00 (125)	RDSS-125	4.1 (104)	RDSS-125, 1 RDSS-CLIP-125	3.9 (98)	RDSS-125, 2 RDSS-CLIP-125	3.7 (93)
5.25 (133)	RDSS-150†	4.3 (109)	RDSS-150†, 1 RDSS-CLIP-150	4.1 (104)	RDSS-150†, 2 RDSS-CLIP-150	3.9 (98)
5.50 (140)	RDSS-150†	4.7 (120)	RDSS-150†, 1 RDSS-CLIP-150	4.5 (114)	RDSS-150†, 2 RDSS-CLIP-150	4.3 (109)
5.75 (146)	RDSS-150†	4.9 (124)	RDSS-150†, 1 RDSS-CLIP-150	4.7 (119)	RDSS-150†, 2 RDSS-CLIP-150	4.5 (114)
6.00 (150)	RDSS-150†	5.1 (129)	RDSS-150†, 1 RDSS-CLIP-150	4.9 (124)	RDSS-150†, 2 RDSS-CLIP-150	4.7 (120)
6.25 (159)	RDSS-150†	5.4 (138)	RDSS-150†, 1 RDSS-CLIP-150	5.2 (133)	RDSS-150†, 2 RDSS-CLIP-150	5.0 (125)

6.50-8.00 (165-210) Ducts in this range require the use of RDSS-AD-210 adapter. Contact your TE representative for application information. See Ordering information.

ADDITIONAL PRODUCT INFORMATION

- In ducts where the cable/cable bundle is less than 2.4" (60mm) in diameter, an RDSS-AT/AP-150 device must be used in conjunction with the RDSS-150.
- Standard package: RDSS = 10 kits/box or 3 kits/box
RDSS-CLIP = 5 clips/box
- RDSS-TOOLS = 1 each/box, CO2 cartridges = 10 each/box, RDSS-AT/AP-150 = 1 each/box
- Related test report: EDR-5253
- S-1278 sealant, used in RDSS-CLIPS, is available separately.

- For proper inflation do not exceed the maximum cable bundle diameter (MCBD). To determine MCB, use a diameter tape or contact your TE representative for assistance.



RDSS sealing clip

RDSS duct sealing clips are to be used if the duct is occupied by more than two cables. The maximum number of cables sealed with one RDSS-CLIP is four. If more cables are to be sealed, one extra clip is needed for every three additional cables. Check with your TE Connectivity representative for applications with more than seven cables.

Catalog Number	Kit Used With
RDSS-CLIP-45	RDSS-45
RDSS-CLIP-75	RDSS-75 and RDSS-60
RDSS-CLIP-100	RDSS-100
RDSS-CLIP-125	RDSS-125
RDSS-CLIP-150	RDSS-150

RDSS installation tools

RDSS duct seals can be installed with a variety of infation tools having the capability of infating RDSS to 45±3 psi (3 bar) of pressure. The tools TE offers are summarized in the table below. The tool will only accept 16-gr CO2 gas cylinders (listed below).

Catalog Number	Description	Description
RDSS-IT-16	Inflation tool designed with an ON/OFF switch and an automatic pres-sure-monitoring system. The required CO2 gas cylinders (E7512-0160) must be ordered separately.	1 tool/box
E7512-0160	16-gr CO2 gas cylinders for the RDSS-IT-16 tool. Each gas cylinder inflates approxi-mately four RDSS-100 duct seals.	10 cylinders/box
E7512-0220	Tube snap assembly. Spare part for RDSS-IT-16 inflation tool.	1 each/box
E7512-0240	Spare pressure gauge assembly for RDSS-IT-16 inflation tool.	1 each/box
E7512-0260	Spare delivery pipe for RDSS-IT-16 inflation tool.	1 each box
S-1278-3 x 61 x 7620	RDSS sealant roll (for smaller diameter wires)	1 25-ft roll/box
RDSS-AT/AP-150	For use with the RDSS-150 in duct 5.25» or larger 1 each/box with cable/cable bundles less than 2.4» (60 mm) in diameter.	1 each/box
RDSS-AD-210	Adapter for ducts 6.5 - 8.0» (165 - 210 mm) diameter.	4 each/box
E4540-1250	RDSS-LUBE for installation of RDSS.	25 each/box

RDSS-IT-16



Rayvolve RVS “Roll-on” Splices for 1/C Power Cable (1000 V)

FEATURES

- Qualified to ANSI C119.1. CSA certified to C22.2 No. 198.2. UL listed per 96J4 (file E91151). RUS accepted for use as a secondary tap or splice cover.
- TE's Raychem RVS splice cover sleeves feature a dual-wall design with an entrapped lubricant, making installation fast and simple. The elastomeric sleeve rolls onto the cable with minimal effort, even at temperatures below -15°F (-25°C).

APPLICATIONS

- For use on standard poly- or elastomeric-insulated cables. Use to insulate and seal in-line compression connectors or to seal terminal lugs.
- Specially formulated EPDM elastomer combines with the high-performance sealant to form a water-resistant, insulating sleeve that is UL listed and CSA certified for direct burial application over in-line compression connectors.

BENEFITS

- Easy “roll-on” installation to effectively insulate and seal cable connections up to 1000 V
- Ideal for use where gas or electric heating devices are not approved



Product selection information: dimensions in inches (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Cable OD (min - max)	Sleeve Length	Max Connector Length
RVS-11	#8-2/0	.22-.68 (6-17)	8.0 (205)	5.00 (127)
RVS-12	1/0-250	.50-.90 (13-23)	9.5 (241)	4.50 (114)
RVS-13	250-600	.70-1.20 (18-30)	12.0 (305)	7.00 (178)
RVS-14	600-1000	.95-1.50 (24-38)	14.0 (356)	9.00 (229)

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. Selections are based on typical dimensions of low-voltage insulated cable. Confrm selection with dimensions to assure proper sizing.
- Kits do not contain connectors. The RVS splice cover selection information mentioned above covers copper and aluminum in-line compression connections.
- Each kit contains one Rayvolve RVS splice cover sleeve and sealant strips
- Standard package: 5 kits/box or 50 kits/box.



End Caps

For the Protection of Cable Ends

FEATURES

- Made of polyolefn
- Coated with sealing adhesive

APPLICATIONS

- For sealing and protecting cable ends
- Temperature range -40°C to +120°C

TE431004 End caps



Product name	plication range (mm) ²	Inner diameter (mm) ¹		Length (mm)	Wall thickness (mm)	Pack pc	Part Number
		A	B				
102L011/S (\$100)	4 – 8	10	4	38	2.0	100	004019N001
102L022/S(\$100)	8 – 17	20	7.5	55	2.3	100	766063N001
102L033/S(\$100)	17 – 30	35	15	90	3.0	100	845013N001
102L044/S(\$50)	30 – 45	55	25	143	3.3	50	160021N001
102L048/S(\$25)	45 – 65	73	32	150	3.3	25	679413N001
102L055/S(\$10)	65 – 95	100	45	162	3.8	10	385369N001
102L066/S(\$10)	95 – 115	120	70	145	3.8	10	922697N001

1	A = as supplied, and B = after free recovery.
2	Printed on the caps.



ZCSM Halogen-Free Heat Shrink Tubing

Raychem Heat-shrinkable Halogen-free, Heavy-wall Tubing for Low Fire Hazard Areas

FEATURES

- Low fire hazard material with low smoke, low toxicity and low acid gas generation
- Prevents corrosion damage by halogenated materials to equipment

APPLICATIONS

- For insulation and protection of personel and equipment, especially in confined areas

ZCSM



Tubing Size	Application range (mm)	H	H	W	W	Part Number
		A max	B min	A* min	B min	
ZCSM-8/3-1500/U	3.5 – 7.0	8	3`	0.6	2.0	325585-000
ZCSM-16/5-1500/U	5.5 – 14.5	16	5	0.7	2.4	190625-000
ZCSM-24/8-1500/U	9.0 – 21.5	24	8	0.9	2.9	953711-000
ZCSM-32/12-1500/U	13.0 – 29.0	32	12	1.0	4.0	896101-000
ZCSM-45/16-1500/U	17.5 – 40.5	45	16	1.0	4.0	244025-000
ZCSM-60/22- 1500/U	24.0 – 54.0	60	22	1.0	4.0	581907-000
ZCSM-70/25-1500/U	27.5 – 63.0	70	25	1.0	4.0	983291-000
ZCSM-85/36-1000/U	39.5 – 76.5	85	36	1.0	4.0	759985-000
ZCSM-120/50-1500/U	55.0 – 108.0	120	50	1.0	4.2	F19864-000
ZCSM-180/75-1500/U	82.5 – 162.0	180	75	1.0	4.2	102779-000

NOTE 1. 85/36 1000mm lengths, balance 1500mm

MWTM Medium Wall Heat Shrink Tubing

Raychem Heat-shrink Tubing, Medium Wall, Weather and UV-resistant, with or without Adhesive

FEATURES

- Made of modified polyolefin with very high electrical, mechanical, weathering and corrosion properties
- For a tight connection or stress relief, the tubing is available with an internal adhesive coating that melts and seals when shrinkage occurs with heat
- Continuous operating temperature -40°C to +120°C
- Halogen-free, UV and weather resistant

APPLICATIONS

- For electrical insulation where good insulation and mechanical protection is required
- For protection against UV radiation on tails in the case of low-voltage terminations, as well as corrosion protection

Length 1500 mm, adhesive-coated



Product name	Application range (mm)	Inner diameter (mm) ¹		Wall thickness (mm) ¹		Length (mm)	Pack pc	Part Number
		A	B	A	B			
MWTM-10/3-1500/S(S15)	3.5 – 7.0	8	3	0.4	1.0	1500	25	320696-000
MWTM-16/5-1500/S(S15)	5.5 – 14.0	16	5	0.5	1.5	1500	25	830732-000
MWTM-25/8-1500/ S(S10)	8.5 – 22	25	8	0.7	2.0	1500	10	142782-000
MWTM-35/12- 1500/S(10)	13.0 – 32.0	35	12	0.7	2.0	1500	10	219394-000
MWTM-50/16- 1500/S(10)	17.0 – 45.0	50	16	0.7	2.0	1500	10	195494-000
MWTM-63/19- 1500/S(5)	21.0 – 57.0	63	19	0.8	2.5	1500	10	514202-000
MWTM-75/22- 1500/S(5)	24.0 – 68.0	75	22	0.9	3.0	1500	5	264027-000
MWTM-85/25- 1500/S(5)	27.0 – 76.0	85	25	0.9	3.0	1500	5	115518-000
MWTM-95/29-1500/S(5)	31.0 – 85.0	95	29	1.0	3.3	1500	5	326745-000
MWTM-115/34-1500/S(5)	36.0 – 100.0	115	34	1.0	3.3	1500	5	746340-000
MWTM-140/42-1500/S(5)	44.0 – 125.0	140	42	1.0	3.5	1500	5	352310-000
MWTM-160/50-1500/S(5)	52.0 – 145.0	160	50	1.0	3.5	1500	5	663016-000
MWTM-180/60-1500/S(5)	62.0 – 162.0	180	60	1.1	3.5	1500	5	761200-000
MWTM-245/80-1500	88.0 – 220.0	245	80	n.a.	2.4	1500	5	ON REQUEST
MWTM-285/135	149.0 – 255.0	285	135	n.a.	1.4	1500	5	ON REQUEST

* Uncoated only.

NOTE Other length available on request

Running on spool, not adhesive-coated

Product name	Application range (mm)	Inner diameter (mm) ¹		Wall thickness (mm) ¹		Pack m	Part Number
		A	B	A	B		
MWTM-10/3-A/U-4(S40)	3.5 – 9.0	10	3	0.4	1.0	40	283807-000
MWTM-16/5-A/U-4(S40)	5.5 – 14.0	16	5	0.5	1.5	40	497587-000
MWTM-25/8-A/U-4(S40)	8.5 – 22.0	25	8	0.7	2.0	40	651145-000
MWTM-35/12-A/U-4(S30)	13.0 – 32.0	35	12	0.7	2.0	30	981425-000
MWTM-50/16-A/U-4(S25)	17.0 – 45.0	50	16	0.7	2.0	25	035001-000
MWTM-63/19-A/U-4(S15)	21.0 – 57.0	63	19	0.8	2.5	15	874903-000
MWTM-75/22-A/U-4(S10)	24.0 – 68.0	75	22	0.9	3.0	10	373921-000

1 A = As supplied, and B = after free recovery. Longitudinal change +5 to -15% up to 43/12 and +5 to -10% from 51/16

WCSM Thick Wall Heat Shrink Tubing

Raychem Heat-shrink Tubing, Thick Wall, Weathering and UV-resistant with Adhesive

FEATURES

- Made of modified polyolefin with very high electrical, mechanical, weathering and corrosion properties
- For a tight connection or stress relief, the tubing is available with an internal adhesive coating that melts and seals when shrinkage occurs with heat
- Continuous operating temperature -40°C to +120°C
- Halogen-free, UV and weather resistant

APPLICATIONS

- For electrical insulation where good insulation and mechanical protection is required.

Length 1000 mm, adhesive-coated



Product name	Application range (mm)	Inner diameter (mm) ¹		Wall thickness (mm) ¹		Length (mm)	Pack pc	Part Number
		A	B	A	B			
WCSM-12/3-1500/ S(S20)	3.5 – 10.0	12	3	0.8	2.0	1500	20	CU9253- 000
WCSM-16/4-1500/ S(S20)	4.5 – 14.0	16	4	0.9	2.4	1500	20	CU9272- 000
WCSM-24/6-1500/ S(S10)	6.5 – 22.0	24	6	1.0	2.7	1500	10	CU9434- 000
WCSM-34/8-1500/ S(S10)	9.0 – 31.0	34	8	1.3	4.0	1500	10	CU7134- 000
WCSM-48/12-1500/ S(S10)	13.0 – 44.0	48	12	1.5	4.5	1500	10	CU8545- 000
WCSM-56/16-1500/ S(S10)	17.5 – 50.0	56	16	1.5	4.4	1500	10	CU7529- 000
WCSM-70/20-1500/S(S5)	22.0 – 63.0	70	20	1.4	4.4	1500	5	CU4493-000
WCSM-90/25-1500/S(S5)	27.0 – 81.0	90	25	1.3	4.3	1500	5	CU4610-000
WCSM-110/30-1500/S(S5)	33.0 – 100.0	110	30	1.2	4.3	1500	5	CU6594-000
WCSM-130/35-1500/S(S5)	38.0 – 118.0	130	35	1.2	4.3	1500	5	CU4649-000
WCSM-160/50-1500/S(S5)	55.0 – 144.0	160	50	1.0	4.3	1500	5	846444-000
WCSM-180/50-1500/S(S5)	55.0 – 162.0	180	50	1.0	4.3	1500	5	169440-000

1 A = As supplied, and B = after free recovery. Longitudinal change +5 to -15% up to 48/12 and +5 to -10% from 56/16



CRSM Wraparounds

Raychem Heat-shrinkable Halogen-free Wraparound System for Plastic or Metal Sheathed Cable Repair

FEATURES

- Fast and permanent wraparounds cable repair and sealing system
- Excellent bonding and sealing characteristics to all materials

APPLICATIONS

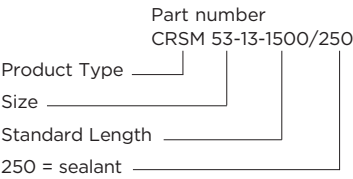
- For sheets repair

CRSM



Product name		H		R		W		Part Number
		A min	B max	A min	B max	A min	B max	
CRSM-34/10- 1500/250(S1)	11 – 21	35	9	110	35	0.3	2.4	EN3756-000
CRSM-53/13- 1500/250(S1)	17 – 32	54	15	170	49	0.3	2.0	EN3764-000
CRSM-84/20- 1500/250(S1)	24 – 50	86	21	270	69	0.3	2.0	EN3773-000
CRSM-107/29-1500/250(S1)	31 – 65	108	27	340	90	0.3	2.0	EN3783-000
CRSM-143/36-1500/250(S1)	33 – 86	144	28	455	119	0.3	1.8	EN3792-000
CRSM-198/55-1500/250(S1)	56 – 120	203	50	640	172	0.3	2.1	EN3800-000

ORDERING EXAMPLE





EPKT Heat Shrink Terminations

Raychem Low Voltage Heat-shrink Terminations up to 1 kV

APPLICATION

- For sealing and protection of indoor or outdoor cable ends on armoured or unarmoured cables
- For 2, 3 and 4 core cables

FEATURES

- Hot-melt adhesive-coated cable breakout and sealing sleeves

CONFORMS TO

- Tested in accordance to CENELEC HD 623 S1.1996 and EN 50393

1 kV 1, 3 and 4-core indoor and outdoor terminations for unarmoured cables

Product name	No of cores	Conductor size (mm²)	Part number
EPKT 0030 (S10)	3	25 – 50	804937-011
EPKT 0046 (S10)	3	70 – 150	963807-000
EPKT 0062 (S10)	3	185 – 300	208159-011
EPKT 0015 (S20)	4	4 – 16	288775-000
EPKT 0031 (S10)	4	25 – 50	005023-000
EPKT 0047 (S10)	4	70 – 150	597107-000
EPKT 0063 (S10)	4	185 – 300	063097-000

1 kV 1, 2 and 4-core indoor and outdoor terminations for armoured cables

Product name	No of cores	Conductor size (mm²)	Part number
EPKT 0017 (S5)	2	25 – 50	024865-000
EPKT 0003 (S10)	4	4 – 16	121775-000
EPKT 0019 (S5)	4	25 – 50	868777-000
EPKT 0035 (S5)	4	70 – 150	223409-000
EPKT 0051 (S5)	4	185 – 300	803719-000

EPKT

Raychem Low Voltage Heat-shrink Terminations 3.6 kV

Product name	No of cores	Conductor size (mm²)	Part number
650mm core tail length			
EPKT 2042	3	25 – 50	796188-011
EPKT 2052	3	70 – 120	796194-000
EPKT 2062	3	150 – 240	796200-011
850mm core tail length			
EPKT 2043	3	25 – 50	796189-011
EPKT 2053	3	70 – 120	796195-011
EPKT 2063	3	150 – 240	796201-000
1200mm core tail length			
EPKT 2044	3	25 – 50	796190-000
EPKT 2054	3	70 – 120	796196-000
EPKT 2064	3	150 – 240	796202-000

EPKJ and AR Inline Joints

Raychem Inline Joints for Plastic and Rubber Insulated Cables up to 1 kV, with or without Armour

FEATURES

- Heat-shrink adhesive coated tubes
- Wide application range
- Suitable for wide range of connectors

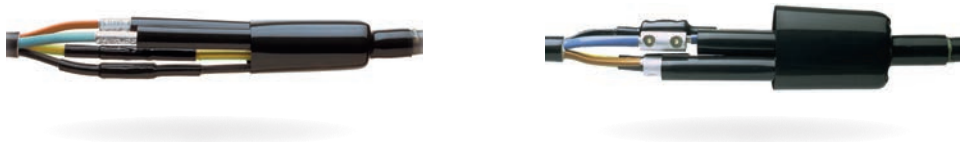
APPLICATIONS

- Designed for 2, 3 and 4 core cables up to 300 mm² with XLPE, PVC or EPR, with or without armour, PVC or PE sheath

CONFORMS TO

- EN 50393

1 kV 4 core joint for armoured cable



Product name	No of cores	Conductor size (mm²)	Part number
AR101 (SMOE-81283)	4	1.5 – 4	731401-000
AR102 (SMOE-81284)	4	6 – 16	086387-000
AR3 (EPKJ-0130-(S5))	4	25 – 50	630855-000
AR4 (EPKJ-0137-(S5))	4	70 – 150	378703-000
AR5 (EPKJ-0144-(S1))	4	185 – 300	602241-000

1 kV 4 core joint for unarmoured cable



Product name	No of cores	Conductor size (mm²)	Part number
EPKJ 0228-(S10)	4	1.5 – 6	676955-000
EPKJ 0235-(S10)	4	6 – 16	793331-000
EPKJ 0242(S10)	4	16 – 35	211661-000
EPKJ 0249(S5)	4	35 – 70	637809-000
EPKJ 0256(S5)	4	70 – 150	482979-000
EPKJ 0263(S5)	4	150 – 300	609695-000

TSJ and TBJ Resin Filled Joints

Raychem Low Voltage Resin Filled Joints for Armoured Cables up to 1 kV

FEATURES

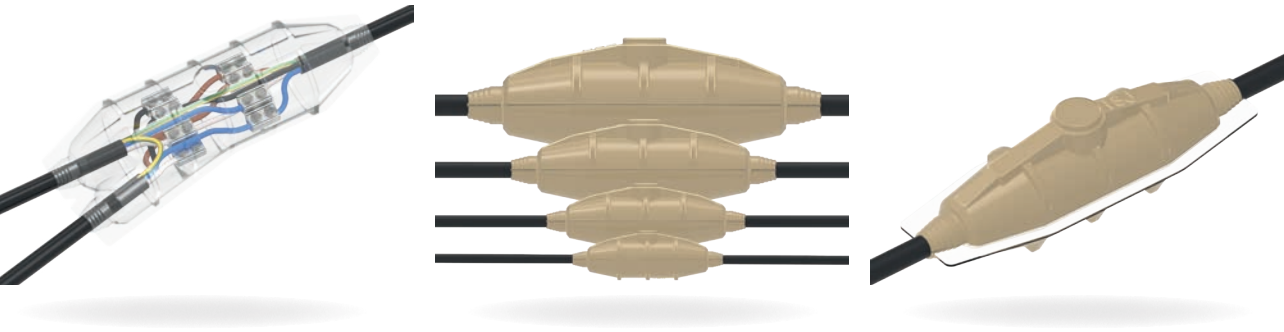
- Rigid clear high-impact shells
- Armour continuity components included
- Suitable for a broad range of connectors

APPLICATIONS

- Designed for 2, 3 and 4 core cables up to 300 mm² with XLPE, PVC or EPR, with or without armour, PC or PE sheath

CONFORMS TO

- BS 7888
- CENELEC HD623
- EN 50393



TBS, TBJ

Product name	Conductor size (mm ²)	Product number
BAH-038080672	TSJ-6	D44929-000
BAH-038080673	TSJ-16	C13884-000
BAH-038080674	TSJ-35	A80251-000
BAH-038080675	TSJ-70	A55202-000
BAH-038080676	TSJ-120	E96081-000
BAH-038080677	TSJ-185	E90897-000
BAH-038080678	TSJ-300	E92066-000
BAH-038080679	TBJ-6	A66977-000
BAH-038080680	TBJ-16	A71740-000
BAH-038080681	TBJ-35	C86482-000
BAH-038080682	TBJ-70	A52841-000
BAH-038080683	TBJ-120	E97389-000
BAH-038080684	TBJ-185	F04415-000
BAH-038080685	TBJ-300	C54263-000



GelWrap Water Resistant Wraparound Splice Closures (1000 V)

FEATURES

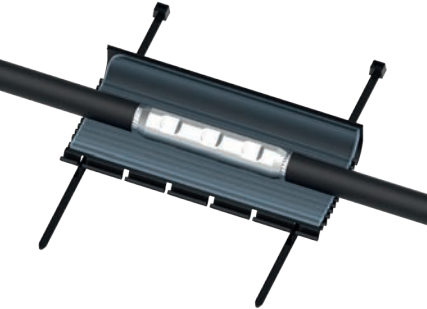
- PowerGel silicone sealant in TE's Raychem GelWrap closure encapsulates the connection
- Corrugated design enables greater range taking ability
- Qualified to ANSI C119.1

APPLICATIONS

- Insulate and seal buried electrical connections rated up to 1000 volts
- Jacket repair
- Engineered to handle the harsh environments of direct burial and manhole applications

BENEFITS

- PowerGel conforms to substrate providing reliable seal against moisture ingress
- Quick installation, snap closure
- No special tools required
- Excellent insulating properties
- Easy, clean re-entry into electrical connection
- Unlimited shelf life



Testing	Test Conditions
ANSI C119.1	600 V insulated underground
Chemical Resistance	Fluid immersion, 168 hours @ 23°C, 75% elongation retention minimum • 10W-40 motor oil • 10% hydrochloric acid • 15% sodium chloride • 20% sodium hydroxide • ETX 60280 antifreeze (1000 hours)
Accelerated Aging	1000 hours @ 135°C • 93% retention tensile strength • 82% retention elongation at break

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Sleeve Length	Conductor Size	Max Connector Opening	Max General Use Diameter Range	Std. Pack
GelWrap-18/4-100	4.0 (100)	#12-4/0 (4-95)	1.0 (25)	0.15-0.70 (4-18)	6
GelWrap-18/4-150	6.0 (150)	#12-4/0 (4-95)	3.0 (75)	0.15-0.70 (4-18)	6
GelWrap-18/4-200	8.0 (200)	#12-4/0 (4-95)	5.0 (125)	0.15-0.70 (4-18)	6
GelWrap-18/4-250	10.0 (250)	#12-4/0 (4-95)	7.0 (175)	0.15-0.70 (4-18)	6
GelWrap-18/4-300	12.0 (300)	#12-4/0 (4-95)	9.0 (225)	0.15-0.70 (4-18)	6
GelWrap-33/10-150	6.0 (150)	#2-500 (35-240)	2.0 (50)	0.40-1.30 (10-33)	6
GelWrap-33/10-200	8.0 (200)	#2-500 (35-240)	4.0 (100)	0.40-1.30 (10-33)	6
GelWrap-33/10-250	10.0 (250)	#2-500 (35-240)	6.0 (150)	0.40-1.30 (10-33)	6
GelWrap-33/10-300	12.0 (300)	#2-500 (35-240)	8.0 (200)	0.40-1.30 (10-33)	12
GelWrap-33/10-350	14.0 (350)	#2-500 (35-240)	10.0 (250)	0.40-1.30 (10-33)	10
GelWrap-50/20-200	8.0 (200)	250-750	2.0 (50)	0.80-1.50 (20-38)	12
GelWrap-50/20-250	10.0 (250)	250-750	4.0 (100)	0.80-1.50 (20-38)	12
GelWrap-50/20-300	12.0 (300)	250-750	6.0 (150)	0.80-1.50 (20-38)	12
GelWrap-50/20-350	14.0 (350)	250-750	8.0 (200)	0.80-1.50 (20-38)	12
GelWrap-50/20-400	16.0 (400)	250-750	10.0 (250)	0.80-1.50 (20-38)	12
GelWrap-UF-200	8.0 (200)	14/2-8/3 w/ground	N/A	N/A	10



GILS Gel In-Line Water Resistant Splice Kit for Power Cable (1000 V)

FEATURES

- Connector accommodates copper and/or aluminum cables
- Qualified to ANSI C119 for underground splicing
- UV resistant
- Qualified for temperatures from -40°C to 90°C
- Connector included
- RUS accepted connector blocks and splices for secondary
- Water-tight for use in all locations

APPLICATIONS

- TE's Raychem GILS gel in-line splice kits, offer a state-of-the-art sealed splice for underground, buried, and overhead applications. GILS closures offer a fast and simple method for splicing, insulating, and environmentally sealing low-voltage cable splices.

BENEFITS

- TE's Raychem PowerGel conforms to substrate providing reliable seal against moisture ingress
- Quick installation, snap closure
- No special tools required
- Excellent insulating properties
- Easy, clean re-entry into electrical connection
- Unlimited shelf life



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Std. Pack
GILS-4/0	#2-4/0	18 or 72 each
GILS-350	1/0-350	18

ADDITIONAL PRODUCT INFORMATION

- Based on typical dimensions for low-voltage insulated cables.
- Related test reports: EDR-5298, EDR-5394.

GTAP Water Resistant Splices (1000 V)

FEATURES

- Molded cover of UV stable, impact-resistant polypropylene provides rugged protection for underground or overhead applications
- TE's Raychem gel conforms to substrate to effectively seal out moisture and contaminants
- Four port (2-in, 2-out design), range-taking mechanical connectors splice a wide range of copper and aluminum cables

APPLICATIONS

- Connect, insulate, and seal low-voltage splices (1000V)
- Commonly used in street lighting applications

BENEFITS

- PowerGel conforms to substrate providing reliable seal against moisture ingress
- Quick installation, snap closure
- No special tools required
- Excellent insulating properties
- Easy, clean re-entry into electrical connection
- Unlimited shelf life when stored in normal conditions



SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (All Outlets) AWG (mm²)	Length	Width	Height	Standard Pack
GTAP-1	#14-#2 (2-35)	2.75 (70)	1.625 (41)	1.0625 (27)	18 or 72
GTAP-2	#14-2/0 (2-70)	4.25 (108)	2 (51)	1.1875 (30)	18 or 72

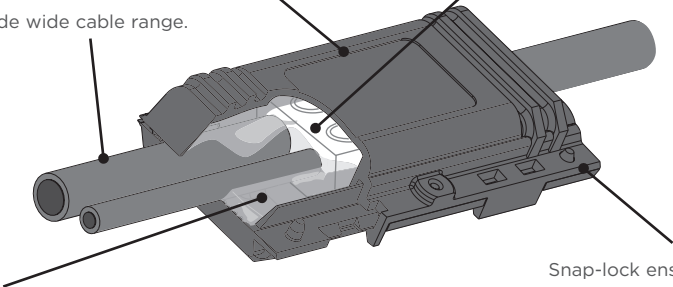
ADDITIONAL PRODUCT INFORMATION

- Selection based on typical dimensions of low-voltage insulated cables.

Molded cover of UV stable, impact resistant polypropylene provides rugged protection for underground or overhear applications.

Range-taking mechanical connector made of aluminum. Accepts both copper and aluminum conductors.

Frangible fingers provide wide cable range.



Snap-lock ensures that cover remains closed.

Silicone gel is high dielectric insulation and provides constant pressure on cable and connector to provide waterseal. PowerGel sealant is specifically formulated for high temperature environments.

GHFC Water Resistant H-Frame Closure for Power Cable (1000 V)

FEATURES

- Molded cover of UV stable, impact-resistant polypropylene provides rugged protection for underground or overhead applications
- Gel conforms to substrate to effectively seal out moisture and contaminants
- Qualified to ANSI C119.1
- Qualified for temperatures from -40°C to 90°C

APPLICATIONS

- Fast, simple method for insulating and environmentally sealing low-voltage cable-taps and splices made with H-frame compression connectors. Common applications are street light connections and overhead transformer leads

BENEFITS

- TE's Raychem PowerGel conforms to substrate providing reliable seal against moisture ingress
- Quick installation, snap closure
- No special tools required
- Excellent insulating properties
- Easy, clean re-entry into electrical connection
- Unlimited shelf life when stored in normal conditions



ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. Selections are based on typical dimensions for low-voltage, insulated cables and connectors.
- Approved connectors (supplied by others) include, but are not limited to:

Product	Approved Connectors
GHFC-1-90	Homac UB214; T&B 63105; Blackburn WR9; Burndy YPC2A8U
GHFC-2-90	Homac OB22, OB44, OB102, OB103; Burndy YHO-1, YHO-2, YHO100, YHO125, YHO150; Blackburn WR139, WR159, WR179, WR199; ILSCO AH1; T&B 63110; UTILCO HT1, HT2

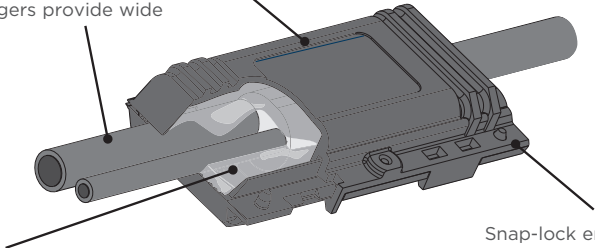
- Standard packs of 100 ea. are also available. Substitute a (B100) in place of the (B10) in the catalog number.
- Related test report: GHFC-1-90 and GHFC-2-90,EDR-5264, GHFC-3-90,

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size		Die	Box Dimensions			Std Pack
	Main	Std. Tap		Length	Width	Height	
GHFC-1-90	#6-#2	#14-#8	BG	2.75 (70)	1.625 (41)	1.0625 (27)	10 or 100
GHFC-2-90	#2-2/0	#14-#6	O	4.25 (108)	2.0 (51)	1.1875 (30)	10 or 100
GHFC-2.5-90	1/0-4/0	#6-3/0	D	7.032 (179)	2.75 (70)	1.560 (40)	30 each
GHFC-3-90	350	4/0	D	6.25 (159)	3.250 (83)	1.90 (49)	6 or 18

Molded cover of UV stable, impact resistant polypropylene provides rugged protection for underground or overhear applications.

Frangible fingers provide wide cable range.



Snap-lock ensures that cover remains closed.

Silicone gel is high dielectric insulation and provides constant pressure on cable and connector to provide waterseal. PowerGel sealant is specifically formulated for high temperature environments.



Gelport Submersible Connectors for URD Distribution (1000 V)

FEATURES

- TE's Raychem GelPort is qualified to ANSI C119.1
- Gel-filled cable entry ports provide a reliable cable seal
- PowerGel sealing gel seals out harsh environments
- Rugged, impact-resistant housing stands up to rough installations
- Clear view back allows for easy positive visual indication of wire position in connector

APPLICATIONS

- Multi-port secondary connectors for low voltage submersible (hand hole / man hole) applications

BENEFITS

- TE's Raychem PowerGel conforms to substrate providing reliable seal against moisture ingress
- Quick and easy installation
- Clean re-entry into electrical connection
- Unlimited shelf life when stored in normal conditions
- No loose parts due to one piece housing



Testing	Approved Connectors
Complete unit	ANSI C119.1, Report: EDR-5379, EDR-5409, EDR-5427, EDR 5463
Connector	ANSI C119.4, Report: 502-47264, 502-47302, 502-47308
Chemical Resistance	ASTM D543 to the following liquids: Sulfuric Acid, Sodium Sulfate, Sodium Chloride, Sodium Hydroxide, Ethylene Glycol
UV Resistance	ASTM G-53-95, ASTM-D-638-95

Catalog Number*	Number of Wire Ports	Conductor Use Range (mm²)	Length	Width	Height	Std. Pack
GelPort 350/500						
GPRT-350-3P(B6)	3	14-350 (2-150)	4.60 (117)	3.825 (97)	3.50 (89)	6
GPRT-350-4P(B6)	4	14-350 (2-150)	5.85 (149)	3.825 (97)	3.50 (89)	6
GPRT-350-5P(B6)	5	14-350 (2-150)	7.10 (180)	3.825 (97)	3.50 (89)	6
GPRT-350-6P(B6)	6	14-350 (2-150)	8.35 (212)	3.825 (97)	3.50 (89)	6
GPRT-350-8P(B6)	8	14-350 (2-150)	10.85 (276)	3.825 (97)	3.50 (89)	6
GPRT-350/4P-500/1P (B6)	5 Hybrid	-	7.10 (180)	3.825 (97)	3.50 (89)	6
	4	14-350 (2-150)	-	-	-	-
GPRT-350/6P-500/2P (B6)	1	6-500 (16-250)	-	-	-	-
	8 Hybrid	-	10.85 (276)	3.825 (97)	3.50 (89)	6
	6	14-350 (2-150)	-	-	-	-
	2	6-500 (16-250)	-	-	-	-

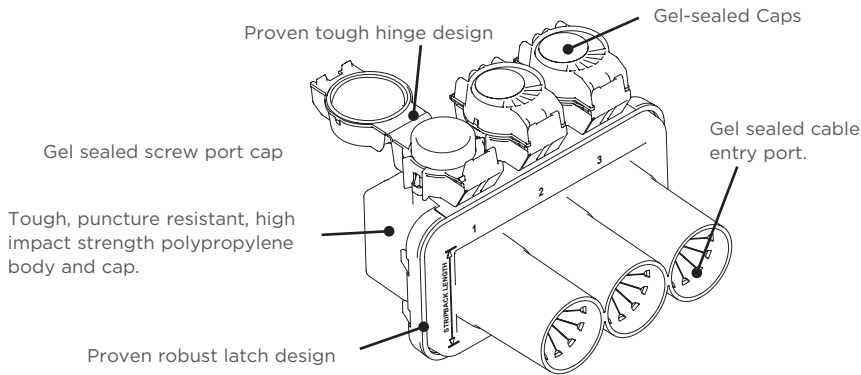
Catalog Number*	Clear View	Number of Wire Ports	Max Cable OD	Max Number	Length	Width	Height
GelPort 500							
GPRT-500-3P(B6)	C	3	0.96	1 (#6-500 kcmil)	4.6 (117)	3.825 (97)	3.50 (89)
GPRT-500-4P(B6)	C	4	0.96	2 (#6-500 kcmil)	5.85 (149)	3.825 (97)	3.50 (89)
GPRT-500-5P(B6)	C	5	0.96	3 (#6-500 kcmil)	7.1 (180)	3.825 (97)	3.50 (89)
GPRT-500-6P(B6)	C	6	0.96	4 (#6-500 kcmil)	8.35 (212)	3.825 (97)	3.50 (89)
GPRT-500-8P(B6)	C	8	0.96	6 (#6-500 kcmil)	10.85 (276)	3.825 (97)	3.50 (89)

* For Clear view back housing, add "-C" to end of catalog number. Standard housing is black.



ADDITIONAL PRODUCT INFORMATION

- Selection based on typical dimensions of low voltage cables.
- Standard package is 6/box.



GelCap Water Resistant Stub Splice Covers (1000 V)

FEATURES

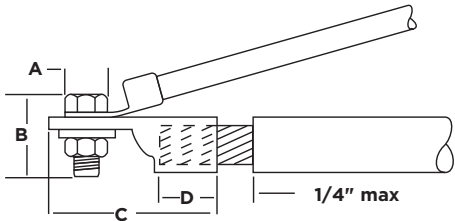
- TE's Raychem GelCap gel conforms to substrate to effectively seal out moisture and contaminants
- Corrugated cover design increases range-taking ability
- UL Listed for US and Canada (CUL) 105°C

APPLICATIONS

- Insulate, seal, and protect stub splice connections up to 1000 volts. Common applications include motor connections, street lights, HVAC, landscape lighting, and irrigation systems.

BENEFITS

- TE's Raychem PowerGel conforms to substrate providing reliable seal against moisture ingress
- Quick installation, snap closure
- No special tools required
- Excellent insulating properties
- Easy, clean re-entry into electrical connection



Testing	Test Conditions
Chemical Resistance	ASTM D543, Sulfuric acid, Sodium hydroxide and motor oil
Ozone Resistance	ASTM D1149, 168 hours @40°C, 50pphm
Accelerated Aging	ASTM D2671
Abrasion Resistance	2040 gm wt., 4000 cycles, 2% max thickness loss

SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Max Bolt Dimensions							
Catalog Number	Feeder Conductor Size (mm)	Width (A)	Length (B)	Max Lug Dimensions Total Length (C)	Barrel Length (D)	Cap Length (Nominal)	Standard Pack
GelCap 1(B5)*	#16-#10 AWG (1.5-5)	.375 (10)	.500 (13)	1.00 (25)	0.5 (13)	2.8 (71)	5
GelCap 2(B5)	#8-#2 AWG (8-35)	.625 (16)	1.00 (25)	2.00 (51)	1.0 (25)	3.5 (89)	5
GelCap 3(B5)	#2-#4/0 AWG (35-105)	.850 (22)	1.30 (33)	3.00 (76)	1.5 (38)	6.0 (152)	5
GelCap 4(B5)	250-500 kcmil (125-250)	1.100 (28)	1.85 (47)	5.00 (127)	2.0 (51)	8.0 (203)	5

* For wire sizes #16 – #10, the unique design of the GelCap 1 splice kit saves space by allowing all three phase connections to be installed in one cover. Note: GelCap 1 kit contains one GelCap cover only. For GelCap splice kits sizes 2-4, one cap per phase is provided.

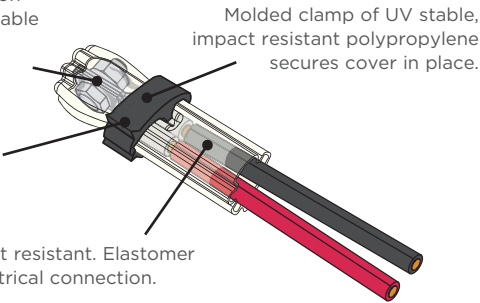
ADDITIONAL PRODUCT INFORMATION

- Selection based on typical dimensions of low-voltage insulated cables.
- Kits do not contain connectors.

Silicone gel is high dielectric insulation and provides constant pressure on cable and connector to provide waterseal. PowerGel sealant is specifically formulated for high temperature environments.

Snap-lock feature provides quick installation removal.

Molded cover is abrasion and impact resistant. Elastomer provides rugged protection for electrical connection.



GelCap SL Water Resistant Splice Covers for Street Lights (1000V)

FEATURES

- Three wire connector is perfect for street light connections - two ports accept #14-2/0 AWG for the feeder cables and a single port for a #14-6 AWG wire to power the light.
- Temperature range - 40 °C to 105 °C

APPLICATIONS

- TE's Raychem GelCap SL Insulates, seals, and protects street lighting connections
- Other applications include irrigation systems, HVAC, and motor connections

BENEFITS

- TE's Raychem PowerGel conforms to substrate providing reliable seal against moisture ingress
- Quick installation, snap closure
- No special tools required
- Excellent insulating properties
- Easy, clean re-entry into electrical connection
- Unlimited shelf life when stored in normal conditions



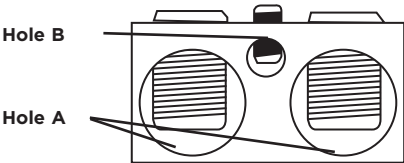
Testing	Test Conditions
Chemical Resistance	ASTM D543, Sulfuric acid, Sodium Hydroxide and motor oil
Ozone Resistance	ASTM D1149, 168 hours @ 40°C, 50 pphm
Accelerated Aging	ASTM D2671
Abrasion Resistance	2040 gm wt., 4000 cycles, 2% max thickness loss

SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Hole A		Hole B		Standard Pack
	Wire Range	Recommended Torque Values	Wire Range	Recommended Torque Values	
GelCap-SL-2/0-3HOLE(B10)	#14-2/0 AWG	120-180 in-lbs	#14-6 AWG	120-150 in-lbs	10
GelCap-SL-2/0-3HOLE-B100	#14-2/0 AWG	120-180 in-lbs	#14-6 AWG	120-150 in-lbs	100

ADDITIONAL PRODUCT INFORMATION

- Selections are based on typical dimensions of low-voltage insulated cables.
- Kits include UL Listed connectors for use with copper and/or aluminum conductors.
- Each kit contains a gel filed cap, cap clamp, and connector.
- Related test reports: EDR-5334, EDR-5352, EDR-5488, EDR-5520.
- Qualified to ANSI C 119.1 per EDR-5520.



Rayvolve RVC “Roll-on” Stub Connection Splice Cover Kits (1000 V)

FEATURES

- Elastomeric RVC cap splice cover provides the required insulation thickness, withstands abrasion, and forms a water-resistant seal
- Qualified to ANSI C-119.1

APPLICATIONS

- Insulate and seal 1kV stub connections (motor leads and street lights)

BENEFITS

- Fast and easy roll-on installation - Install all 3 phases at the same time
- Tool-free and compact size makes TE's Raychem RVC cap ideal for installation in cramped motor boxes



PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Conductor Size (AWG/kcmil)	Insulation Cut-Back (max)
Three-wire stub splices		
RVC-1V	#14-#8	1.75 (44)
RVC-2V	#6-#2	2.75 (70)
Abrasion Resistance	2040 gm wt., 4000 cycles, 2% max thickness loss	

Catalog Number	Feeder Size (AWG/ kcmil)	Bolt Dimensions		Lug Length (max)	Cap Length (Nominal)	Standard Pack
		Size (max)	Length (max)			
Motor Connections or two-wire stub splices						
RVC-1V(B5)	#14-#4	.375 (8)	.625 (15)	1.75 (45)	3.00 (75)	5
RVC-2V(B5)	#8-2/0	.375 (8)	.750 (20)	2.75 (70)	4.00 (100)	5
RVC-3V(B5)	#2-4/0	.500 (12)	1.00 (25)	3.00 (75)	5.25 (130)	5
RVC-4V(B5)	250-500	.625 (16)	1.50 (35)	5.00 (125)	7.50 (190)	5

ADDITIONAL PRODUCT INFORMATION

- Select the appropriate catalog number. Selections are based on typical dimensions of low-voltage insulated cable. Confirm selection with dimensions to assure proper sizing.
- Each kit contains one Rayvolve RVC splice cover sleeve and sealant strips.
- Standard package: 5 kits/box.
- Related test report: EDR-5614.
- For connector information refer to the Connectors and Terminals section of this catalog.



Fuse Boxes for Street Lighting Applications

FEATURES

- For over 60 years, TE's well-known GURO fuse boxes have delivered on performance and reliability – as well as providing a long service life
- Advanced materials science produces robust, highly durable products that withstand harsh environments
- Provide surge protection to reduce randomly occurring voltage spikes in the installation to a level that does not damage LED luminaires
- Our experts can support you from challenging design problems to hands-on field support for stress-free installation

APPLICATIONS

- Public street lighting
- Private outdoor lights for parking lots and apartment buildings
- Industrial settings such as refineries and power plants
- Infrastructure, including harbors, airports and rail stations

BENEFITS

- Meet IEC 61439 (DIN VDE 0661-500) standard
- Reliable performance in harsh environment
- Easy to install



Refer to Standard	Product Name	Selection Criteria	Number And Application Range Of Cables (Cross Section MM²)			Number and Type of Fuse Carriers	Available With Surge Arresters for LED Lighting	Type of Terminals	Ingress Protection	Dimension of Pole (MM)	
			One	Two	Three					Door	Min. Inside Diameter
DIN VDE 0660-505, DIN 43628	EKM-2050	Medium poles, outdoor, medium cables	3-5 x 2,5-16 3-4 x 2,5-25	3-5 x 2,5-16 3-4 x 2,5-25	3-5 x 2,5-16	2 / 3 x D01	1 / 2	Sliding terminals	IP54	85 x 270	89
	EKM-2051	Medium poles, outdoor, medium cables	3-5 x 2,5-16 3-4 x 2,5-25*	3-5 x 2,5-16 3-4 x 2,5-25	3-5 x 2,5-16	2 / 3 x D01	1 / 2	Sliding terminals	IP54	85 x 350	89 (100)
	EKM-2020	Medium poles, medium cables	3-5 x 2,5-16	3-5 x 2,5-16	3-5 x 2,5-16	1 / 2 x D01	1	Mantle terminals	IP44	70 x 240	84
	EKM-2042	Slim poles, outdoor, medium cables	3-5 x 2,5-10	3-5 x 2,5-10	3-5 x 2,5-10	2 x D01	—	Sliding terminals	IP43/IP55	66 x 240	70
	EKM-2045	Bollards, slim poles, outdoor, small cables	3-4 x 1,5-4	3-4 x 1,5-4	—	1 x D01	—	Box terminals	IP55	58 x 150	59
—	EKM-2072	Medium poles, large cables	3-5 x 4-16 3-5 x 25-35	3-5 x 4-16 3-5 x 25-35	—	1 / 2 x DII	1	Mantle terminals	IP43	80 x 280	90
	EKM-2035	Large poles, large cables	3-4 x 4-50	3-4 x 4-50	3-4 x 4-35	1 / 2 x DII	1	Sliding terminals	IP43	90 x 300	110
	EKM-1261	Medium poles, outdoor, medium cables	3-5 x 6-16	3-5 x 6-16	3-5 x 6-10	1 / 2 x D01/ DII	—	Mantle terminals	IP54	80 x 250	95 (100)
	EKM-1261	Submersible medium poles, outdoors	3-5-x 10	3-5-x 10	3-5-x 10	2 / 3 x D01	—	Mantle terminals	IP68	80 x 250	95
	EKM-1281	Large poles, outdoor large cables	3-5 x 16-35	3-5 x 16-35	3-4 x 16	2 / 3 x D01 1 / 2 x DII	—	Sliding terminals	IP54	100 x 300	120
	EKM-1281	Submersible large poles,outdoors	3-5 x 2,5-16 3-4 x 2,5-25	3-5 x 2,5-16 3-4 x 2,5-25	—	2 / 3 x D01	—	Sliding terminals	IP68	100 x 300	120
	EKM-1271	Medium poles, medium cables	3-5 x 6-16	3-5 x 6-16	—	1 x DII	—	Mantle terminals	IP43	80 x 210	90
	EKM-1272	Medium poles, medium cables	3-5 x 6-16	3-5 x 6-16	—	2 x DII	—	Mantle terminals	IP43	80 x 250	90





Chapter II

Medium Voltage Cable Accessories

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APKT

Heat-shrinkable Termination for Cables up to 36 kV

FEATURES

- Universal termination family for 7.2-36 kV based on Raychem SCTM stress control technology;
- Red non-tracking Raychem HVOT tubing provides excellent environmental protection Längswasserdicht

APPLICATIONS

- All applications for polymeric 1-core, 3-core, armoured and unarmoured cables;
- Can be used in combination with Raychem RICS / RCAB / RSRB switchgear connection systems

BENEFITS

- Tested in accordance to CENELEC
- HD.629.1.S2:2006, IEC 60502-4 and IEEE 48



SELECTION INFORMATION: DIMENSIONS SHOWN IN MILLIMETERS

Product Family

Voltage
up to 7.2 kV
12 and 17.5 kV
24 kV
36 kV

Cable Cross Section

7.2kV mm²	12/17.5kV mm²	24kV mm²	36kV mm²
16-50	16-35	25-35	
70-120	50-70	50-70	35-50
150-240	95-240	95-185	70-120
300-500	300-400	240-400	15-185
630-1000	500-800	500-630	240-500
	1000	800-1000	630-1000

Number of Cores

Single Core
3-Core

Dielectric or Insulation Type

XLPE

Location of Installation

Indoor
Outdoor

Length of Termination Tail (3-Core only)

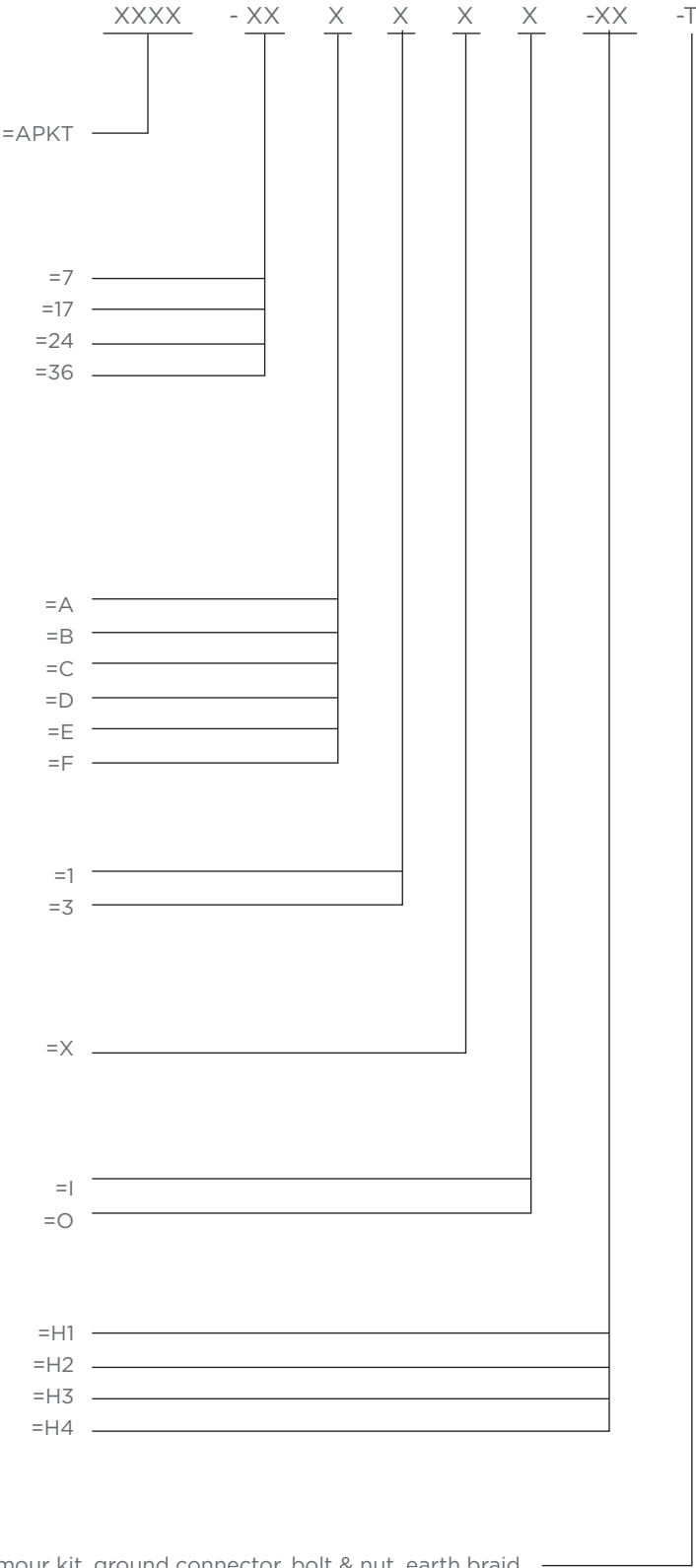
for 450 mm
for 650 mm
for 800 mm
for 1200 mm

ACCESSORIES

Not include termination accessories such as cable lug, armour kit, ground connector, bolt & nut, earth braid.

Ordering Example:

APKT-17C 3X O-H3-T
Outdoor termination for 12/17.5 kV, 120 mm² 3-core XLPE cable, tail length 800 mm.



TE's Raychem termination kit for XLPE cable without armour

Voltage	Cable Size	Single Core		Three Core	
(kV)	(mm²)	Indoor	Outdoor	Indoor	Outdoor
7.2	16-50	APKT 7A1XI-T	APKT 7A1X0-T	APKT 7A3XI-H2-T	APKT 7A3X0-H2-T
	70-120	APKT 7B1XI-T	APKT 7E1X0-T	APKT 7B3XI-H2-T	APKT 7B3X0-H2-T
	150-240	APKT 7C1XI-T	APKT 7C1X0-T	APKT 7C3XI-H2-T	APKT 7C3X0-H2-T
	300-500	APKT 7D1XI-T	APKT 7D1X0-T	APKT 7D3XI-H2-T	APKT 7D3X0-H2-T
	630-1000	APKT 7E1XI-T	APKT 7E1X0-T	-	-
12-17.5	15-35	APKT 17A1XI-T	APKT 17A1X0-T	APKT 17A3XI-H2-T	APKT 17A3X0-H2-T
	50-70	APKT 17B1XI-T	APKT 17B1X0-T	APKT 17B3XI-H2-T	APKT 17B3X0-H2-T
	95-240	APKT 17C1XI-T	APKT 17C1X0-T	APKT 17C3XI-H2-T	APKT 17C3X0-H2-T
	300-400	APKT 17D1XI-T	APKT 17D1X0-T	APKT 17D3XI-H2-T	APKT 17D3X0-H2-T
	500-800	APKT 17E1XI-T	APKT 17E1X0-T	-	-
	1000	APKT 17F1XI-T	APKT 17F1X0-T	-	-
24	25-35	APKT 24A1XI-T	APKT 24A1X0-T	APKT 24A3XI-H2-T	APKT 24A3X0-H3-T
	50-70	APKT 24B1XI-T	APKT 24B1X0-T	APKT 24B3XI-H2-T	APKT 24B3X0-H3-T
	95-185	APKT 24C1XI-T	APKT 24C1X0-T	APKT 24C3XI-H2-T	APKT 24C3X0-H3-T
	240-400	APKT 24D1XI-T	APKT 24D1X0-T	APKT 24D3XI-H2-T	APKT 24D3X0-H3-T
	500-630	APKT 24E1XI-T	APKT 24E1X0-T	-	-
	800-1000	APKT 24F1XI-T	APKT 24F1X0-T	-	-
36	35-50	APKT 36B1XI-T	APKT 36B1X0-T	APKT 36B3XI-H2-T	APKT 36B3X0-H3-T
	70-120	APKT 36C1XI-T	APKT 36C1X0-T	APKT 36C3XI-H2-T	APKT 36C3X0-H3-T
	150-185	APKT 36D1XI-T	APKT 36D1X0-T	APKT 36D3XI-H2-T	APKT 36D3X0-H3-T
	240-500	APKT 36E1XI-T	APKT 36E1X0-T	APKT 36E3XI-H2-T	APKT 36E3X0-H3-T
	630-1000	APKT 36F1XI-T	APKT 36F1X0-T	-	-

Note: For armoured cables, please contact your local sales representative



EPKT

Raychem Medium Voltage Heat-shrink Terminations up to 7.2 kV

FEATURES

- Universal termination family for 12-36 kV based on Raychem SCTM stress control technology
- Red non-tracking Raychem HVOT tubing provides excellent environmental protection

APPLICATIONS

- All applications for polymeric 1-core, 3-core, armoured and unarmoured cables
- Can be used in combination with Raychem RICS / RCAB / RSRB switchgear connection systems

CONFORMS TO

- Tested in accordance to CENELEC HD.629.1.S2:2006, IEC 60502-4 and IEEE 48

Length of termination tail (3-core only)

for 450 mm = H1
for 650 mm = H2
for 800 mm = H3
for 1200 mm = H4

7.2 kV 1-core indoor terminations for polymeric cables

Product name	Conductor size (mm²)	Part number
EPKT 7A1XI	16 – 50	369608-011
EPKT 7B1XI	70 – 120	034189-000
EPKT 7C1XI	150 – 240	882065-011
EPKT 7D1XI	300 – 500	769766-011
EPKT 7E1XI	630 – 1000	393728-000

7.2 kV 1-core outdoor terminations for polymeric cables

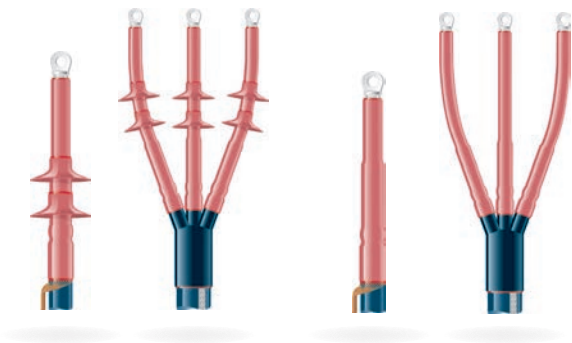
Product name	Conductor size (mm²)	Part number
EPKT 7B1X0	70 – 120	240394-000
EPKT 7C1X0	150 – 240	519922-011
EPKT 7D1X0	300 – 500	318838-011
EPKT 7E1X0	630 – 1000	619899-011

7.2 kV 3-core indoor terminations for polymeric cables

Product name	Conductor size (mm²)	Part number
EPKT 7C3XIH2	150 – 240	310407-011
EPKT 7C3XIH3	150 – 240	565544-011
EPKT 7D3XIH2	300 – 500	TBC

7.2 kV 3-core outdoor terminations for polymeric cables

Product name	Conductor size (mm²)	Part number
EPKT 7C3X0H2	150 – 240	964985-000
EPKT 7D3X0H1	300 – 500	955857-000
EPKT 7D3X0H3	300 – 500	895086-000

**Length of termination tail (3-core only)**

for 450 mm = H1
for 650 mm = H2
for 800 mm = H3
for 1200 mm = H4

EPKT*Raychem Medium Voltage Heat-shrink Terminations up to 17.5 kV***FEATURES**

- Universal termination family for 12-36 kV based on Raychem SCTM stress control technology
- Red non-tracking Raychem HVOT tubing provides excellent environmental protection

APPLICATIONS

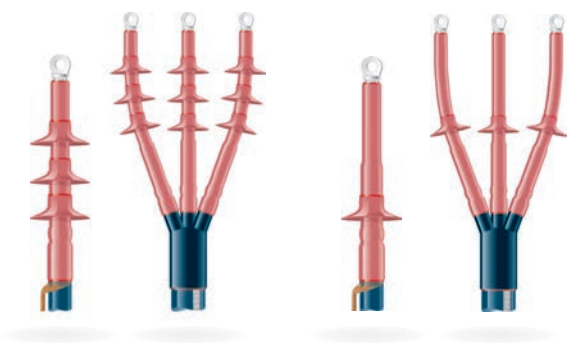
- All applications for polymeric and MIND paper on 1-core, 3-core, armoured and unarmoured cables
- Can be used in combination with Raychem RICS / RCAB / RSRB switchgear connection systems

CONFORMS TO

- Tested in accordance to CENELEC HD.629.1.S2:2006, IEC 60502-4 and IEEE 48

Raychem Medium Voltage Heat-shrink Terminations up to 17.5 kV

Product name	Conductor size (mm ²)	Part number
17.5 kV 1-core indoor terminations for polymeric cables		
EPKT 17B1XI	35 – 70	500365-011
EPKT 17C1XI	95 – 240	068756-011
EPKT 17D1XI	300 – 400	328499-011
EPKT 17E1XI	500 – 800	027618-011
EPKT 17F1XI	1000	896210-011
17.5 kV 1-core outdoor terminations for polymeric cables		
EPKT 17B1XO	35 – 70	595847-011
EPKT 17C1XO	95 – 240	931928-011
EPKT 17D1XO	300 – 400	206772-011
EPKT 17E1XO	500 – 800	712995-011
EPKT 17F1XO	1000	051492-011
17.5 kV 3-core indoor terminations for polymeric cables		
EPKT 17A3XIH2	16 – 25	842908-011
EPKT 17A3XIH4	16 – 25	154667-011
EPKT 17B3XIH2	35 – 70	007825-011
EPKT 17B3XIH4	35 – 70	663811-011
EPKT 17C3XIH2	95 – 240	258166-011
EPKT 17C3XIH4	95 – 240	889147-011
EPKT 17D3XIH2	300 – 400	789902-011
EPKT 17D3XIH4	300 – 400	405002-011
17.5 kV 3-core outdoor terminations for polymeric cables		
EPKT 17A3XOH2	16 – 25	470454-000
EPKT 17A3XOH3	16 – 25	208196-000
EPKT 17B3XOH2	35 – 70	168183-011
EPKT 17B3XOH4	35 – 70	283692-011
EPKT 17C3XOH2	95 – 240	181259-011
EPKT 17C3XOH4	95 – 240	667923-000
EPKT 17D3XOH3	300 – 400	747026-000
EPKT 17D3XOH4	300 – 400	434873-011
17.5 kV 3-core indoor terminations for paper cables		
EPKT 17A3MIH2	16 – 25	818652-000
EPKT 17A3MIH4	16 – 25	251778-000
EPKT 17B3MIH2	35 – 70	085596-011
EPKT 17B3MIH4	35 – 70	006552-000
EPKT 17C3MIH2	95 – 240	025719-011
EPKT 17C3MIH4	95 – 240	835269-011
EPKT 17D3MIH2	300 – 400	321575-011
17.5 kV 3-core outdoor terminations for paper cables		
EPKT 17A3MOH2	16 – 25	468180-000
EPKT 17A3MOH4	16 – 25	TBC
EPKT 17B3MOH2	35 – 70	740131-011
EPKT 17B3MOH3	35 – 70	152178-000
EPKT 17C3MOH2	95 – 240	158810-011
EPKT 17C3MOH4	95 – 240	313358-011
EPKT 17D3MOH2	300 – 400	604082-011
EPKT 17D3MOH4	300 – 400	702854-011

**Length of termination tail (3-core only)**

for 450 mm = H1
for 650 mm = H2
for 800 mm = H3
for 1200 mm = H4

EPKT*Raychem Medium Voltage Heat-shrink Terminations up to 24 kV***FEATURES**

- Universal termination family for 12-36 kV based on Raychem SCTM stress control technology
- Red non-tracking Raychem HVOT tubing provides excellent environmental protection

APPLICATIONS

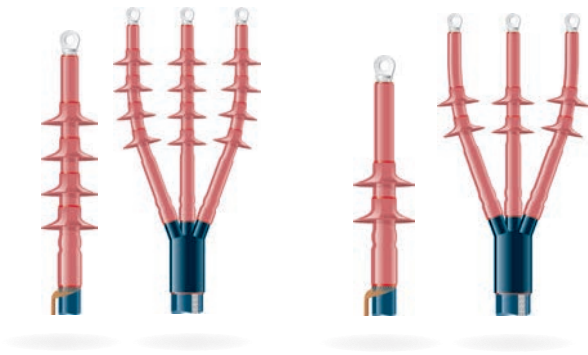
- All applications for polymeric and MIND paper on 1-core, 3-core, armoured and unarmoured cables
- Can be used in combination with Raychem RICS / RCAB / RSRB switchgear connection systems

CONFORMS TO

- Tested in accordance to CENELEC HD.629.1.S2:2006, IEC 60502-4 and IEEE 48

Raychem Medium Voltage Heat-shrink Terminations up to 24 kV

Product name	Conductor size (mm ²)	Part number
24 kV 1-core indoor terminations for polymeric cables		
EPKT 24B1XI	25 – 50	562168-000
EPKT 24C1XI	70 – 185	922196-011
EPKT 24D1XI	240 – 300	451649-000
EPKT 24E1XI	400 – 630	975658-011
EPKT 24F1XI	800 – 1000	306994-000
24 kV 1-core outdoor terminations for polymeric cables		
EPKT 24B1XO	25 – 50	613670-011
EPKT 24C1XO	70 – 185	278218-011
EPKT 24D1XO	240 – 300	485566-000
EPKT 24E1XO	400 – 630	792760-011
EPKT 24F1XO	800 – 1000	844961-000
24 kV 1-core indoor terminations for paper cables		
EPKT 24B1MI	25 – 50	047852-000
EPKT 24C1MI	70 – 185	503845-000
EPKT 24D1MI	240 – 300	198763-000
24 kV 3-core indoor terminations for polymeric cables		
EPKT 24B3XIH2	25 – 50	658587-011
EPKT 24B3XIH3	25 – 50	TBC
EPKT 24C3XIH2	70 – 185	397856-011
EPKT 24C3XIH4	70 – 185	773849-000
EPKT 24D3XIH2	240 – 300	428150-011
24 kV 3-core outdoor terminations for polymeric cables		
EPKT 24B3XOH3	25 – 50	462038-011
EPKT 24C3XOH4	70 – 185	855463-011
EPKT 24D3XOH3	240 – 300	896693-011
24 kV 3-core indoor terminations for paper cables		
EPKT 24B3MIH2	25 – 50	957227-000
EPKT 24C3MIH2	70 – 185	136493-000
EPKT 24D3MIH2	240 – 300	724317-000
24 kV 3-core outdoor terminations for paper cables		
EPKT 24B3MOH3	25 – 50	483103-000
EPKT 24C3MOH3	70 – 185	499917-000
EPKT 24C3MOH4	70 – 185	915409-000
EPKT 24D3MOH3	240 – 300	516181-000
EPKT 24D3MOH4	240 – 300	013571-000



EPKT

Raychem Medium Voltage Heat-shrink Terminations up to 33 kV

FEATURES

- Universal termination family for 12-36 kV based on Raychem SCTM stress control technology
- Red non-tracking Raychem HVOT tubing provides excellent environmental protection

APPLICATIONS

- All applications for polymeric and MIND paper on 1-core, 3-core, armoured and unarmoured cables

CONFORMS TO

- Tested in accordance to CENELEC HD.629.1.S2:2006, IEC 60502-4 and IEEE 48

Length of termination tail (3-core only)

for 450 mm = H1
for 650 mm = H2
for 800 mm = H3
for 1200 mm = H4

Raychem Medium Voltage Heat-shrink Terminations up to 33 kV

Product name	Conductor size (mm ²)	Part number
33 kV 1-core indoor terminations for polymeric cables		
EPKT 36C1XI	50 – 95	454523-011
EPKT 36D1XI	120 – 185	308359-011
EPKT 36E1XI	240 – 500	651264-011
EPKT 36F1XI	630 – 1000	700320-011
TBC	1000	TBC
33 kV 1-core outdoor terminations for polymeric cables		
EPKT 36C1XO	50 – 95	900926-011
EPKT 36D1XO	120 – 185	553365-011
EPKT 36E1XO	240 – 500	372083-011
EPKT 36F1XO	630 – 1000	407002-011
33 kV 3-core indoor terminations for polymeric cables		
EPKT 36C3XIH2	50 – 95	320645-000
EPKT 36C3XIH4	50 – 95	559139-011
EPKT 36D3XIH2	120 – 185	599496-011
EPKT 36D3XIH4	120 – 185	TBC
EPKT 36E3XIH2	240 – 500	174907-011
EPKT 36E3XIH3	240 – 500	683636-011
33 kV 3-core outdoor terminations for polymeric cables		
EPKT 36C3XOH4	50 – 95	921312-011
EPKT 36D3XOH4	120 – 185	060437-011
EPKT 36E3XOH4	240 – 500	496517-011

Note: Indoor and outdoor versions of PILC terminations available on request.
Indoor and outdoor versions of paper MIND terminations available on request.



IXSU/OXSU

Raychem Medium Voltage Heat-shrink Zinc Oxide Stress Control Terminations up to 12 kV

FEATURES

- Universal termination family for 12 kV based on unique Raychem zinc oxide stress control technology
- Red co-extruded non-tracking Raychem zinc oxide HVOT tubing provides excellent environmental protection
- Compact design
- Conductive break-out and CNTM core extension tubes allow crossing of cores

APPLICATIONS

- All applications for polymeric 1-core, 3-core, armoured and unarmoured cables
- Can be used in combination with Raychem RICS / RCAB / RSRB switchgear connection systems

CONFORMS TO

- Tested in accordance to CENELEC HD.629.1.S2:2006, IEC 60502-4 and IEEE 48

Raychem Medium Voltage Heat-shrink Zinc Oxide Stress Control Terminations up to 12 kV

Product name	Conductor size (mm ²)	Part number
12 kV 1-core indoor terminations for polymeric cables		
IXSU-F 3111	10 – 35	508493-011
IXSU-F 3121	25 – 95	489269-011
IXSU-F 3131	95 – 240	097105-011
IXSU-F 3141	240 – 500	422037-011
IXSU-F 3151	500 – 800	565915-011
IXSU-F 3161	1000 – 1200	F11994-011
12 kV 1-core outdoor terminations for polymeric cables		
OXSU-F 3111	10 – 35	921513-011
OXSU-F 3121	25 – 95	674179-011
OXSU-F 3131	95 – 240	170347-011
OXSU-F 3141	240 – 500	572329-011
OXSU-F 3151	500 – 800	057101-011
OXSU-F 3161	1000 – 1200	A25232-011
12 kV 3-core indoor terminations for polymeric cables		
IXSU-F 3301	10 – 16	042899-011
IXSU-F 3311	16 – 35	609815-011
IXSU-F 3314	16 – 35	492379-000
IXSU-F 3321	25 – 70	975845-011
IXSU-F 3324	25 – 70	186727-011
IXSU-F 3331	95 – 240	931779-011
IXSU-F 3334	95 – 240	843829-011
IXSU-F 3341	240 – 500	681745-011
IXSU-F 3344	240 – 500	278157-011
12 kV 3-core outdoor terminations for polymeric cables		
OXSU-F 3311	16 – 35	648313-000
OXSU-F 3314	16 – 35	652785-000
OXSU-F 3321	25 – 70	924109-000
OXSU-F 3324	25 – 70	462641-011
OXSU-F 3331	95 – 240	114825-011
OXSU-F 3334	95 – 240	447699-000
OXSU-F 3341	240 – 500	619691-000



IXSU/OXSU

Raychem Medium Voltage Heat-shrink Zinc Oxide Stress Control Terminations up to 24 kV

FEATURES

- Universal termination family for 24 kV based on unique Raychem zinc oxide stress control technology
- Red co-extruded non-tracking Raychem zinc oxide HVOT tubing provides excellent environmental protection
- Compact design
- Conductive break-out and CNTM core extension tubes allow crossing of cores

APPLICATIONS

- All applications for polymeric 1-core, 3-core, armoured and unarmoured cables
- Can be used in combination with Raychem RICS / RCAB / RSRB switchgear connection systems

CONFORMS TO

- Tested in accordance to CENELEC HD.629.1.S2:2006, IEC 60502-4 and IEEE 48

Raychem Medium Voltage Heat-shrink Zinc Oxide Stress Control Terminations up to 24 kV

Product name	Conductor size (mm ²)	Part number
24 kV 1-core indoor terminations for polymeric cables		
IXSU-F 5121	25 – 70	552897-011
IXSU-F 5131	70 – 240	086833-011
IXSU-F 5141	185 – 400	675377-011
IXSU-F 5151	400 – 800	000877-011
IXSU-F 5161	1000 – 1200	F01490-011
24 kV 1-core outdoor terminations for polymeric cables		
OXSU-F 5121	25 – 70	294997-011
OXSU-F 5131	70 – 240	403451-011
OXSU-F 5141	185 – 400	529965-011
OXSU-F 5151	400 – 800	074061-011
OXSU-F 5161	1000 – 1200	C26806-011
24 kV 3-core indoor terminations for polymeric cables		
IXSU-F 5311	10 – 25	421400-011
IXSU-F 5321	25 – 50	971921-011
IXSU-F 5324	25 – 50	197315-011
IXSU-F 5331	70 – 185	454059-011
IXSU-F 5334	70 – 185	613651-011
IXSU-F 5341	185 – 400	486669-011
IXSU-F 5344	185 – 400	604505-011
24 kV 3-core outdoor terminations for polymeric cables		
OXSU-F 5311	10 – 25	407304-011
OXSU-F 5314	10 – 25	401520-011
OXSU-F 5321	25 – 50	911909-000
OXSU-F 5324	25 – 50	893465-000
OXSU-F 5331	70 – 185	381949-011
OXSU-F 5334	70 – 185	442835-000
OXSU-F 5341	185 – 400	047705-011
OXSU-F 5344	185 – 400	535683-000

EPKJ

Raychem Medium Voltage Heat Shrink Cable Joints up to 17.5 kV

FEATURES

- Pre-engineered range taking heat-shrinkable tubings incorporating precisely engineered impedance stress control. EPKJ universal joints are suitable for a wide range of connectors and cable sizes with no limitations on shelf life

APPLICATIONS

- Suitable for polymeric, rubber and paper insulated MIND cables single and three core, armoured and non-armoured

CONFORMS TO

- CENELEC and IEC standards

Raychem medium voltage heat shrink cable joints up to 17.5 kV



Product name	Conductor size (mm ²)	Part number
XLPE TO XLPE		
Single core to three core		
EPKJ-17A/1XU-3XU	35 – 70	611905-011
EPKJ-17B/1XU-3XU	95 – 185	591811-011
EPKJ-17C/1XU-3XU	240 – 400	961580-011
Three core to three core		
EPKJ-17A/3XU-3XU	35 – 70	345116-011
EPKJ-17B/3XU-3XU	95 – 185	765410-011
EPKJ-17C/3XU-3XU	240 – 400	251291-011
Three core to three core armoured		
EPKJ-17A/3XU- 3XU-W	35 – 70*	863732-011
EPKJ-17B/3XU- 3XU-W	95 – 185*	467470-011
EPKJ-17C/3XU- 3XU-W	240 – 400*	678746-011
XLPE to paper insulated lead covered single core		
EPKJ-17A/1XU-1HL	35 – 70	042316-011
EPKJ-17B/1XU-1HL	95 – 185	361308-011
EPKJ-17C/1XU-1HL	240 – 400	634912-011
EPKJ-17D/1XU-1HL	500 – 630	813649-011
Paper insulated lead covered single core		
EPKJ-17C/1HL-1HL	240 – 400	885779-011
EPKJ-17D/1HL-1HL	500 – 630	292748-011
XLPE to paper insulated lead covered 3-core unarmoured		
EPKJ-17A/3XU-3SB	35 – 70	179240-000
EPKJ-17B/3XU-3SB	95 – 185	226574-011
EPKJ-17C/3XU-3SB	240 – 400	545967-011
XLPE to paper insulated lead sheathed 3-core armoured		
EPKJ-17A/3XU- 3SB-W	25 – 50	116472-011
EPKJ-17B/3XU- 3SB-W	70 – 150	351372-011
EPKJ-17C/3XU- 3SB-W	185 – 300	984248-011
Paper insulated lead sheathed 3-core armoured		
EPKJ-17A/3SB- 3SB-W	25 – 50	144086-011
EPKJ-17B/3SB- 3SB-W	70 – 150	098379-011
EPKJ-17C/3SB- 3SB-W	185 – 300	114577-011
XLPE single core to paper insulated lead sheathed 3-core		
EPKJ-17B/1XU-3HL	95 – 185	635241-011
XLPE single core to paper insulated lead sheathed 3-core		
EPKJ-17A/1XU-3SB	35 – 70	652371-011
EPKJ-17B/1XU-3SB	95 – 185	650316-011
EPKJ-17C/1XU-3SB	240 – 400	747518-011
EPKJ-17D/1XU-3SB	500 – 630	098464-000

NOTE

SB for 3-core paper cables (screened or belted) with overall metal sheath.
HL for paper cables with lead sheath on each core.
Where possible use MXSU and MXSW product.

EPKJ

Raychem Medium Voltage Heat Shrink Cable Joints up to 24 kV

FEATURES

- Pre-engineered range taking heat-shrinkable tubings incorporating precisley engineered impedance stress control. EPKJ universal joints are suitable for a wide range of connectors and cable sizes with no limitations on shelf life

APPLICATIONS

- Suitable for polymeric, rubber and paper insulated MIND cables
- Single and three core, armoured and non-armoured

CONFORMS TO

- CENELEC and IEC standards

Raychem medium voltage heat shrink cable joints up to 24 kV



Product name	Conductor size (mm ²)	Part number
XLPE TO XLPE		
EPKJ-24D/1XU-3XU	300 – 400	858656-011
EPKJ-24D/3XU-3XU	300 – 400	209513-011
EPKJ-24B/3XU- 3XU-W	35 – 70	961281-011
EPKJ-24C/3XU- 3XU-W	95 – 240	741682-011
EPKJ-24D/3XU- 3XU-W	300 – 400	425444-011
XLPE to paper insulated lead covered single core		
EPKJ-24B/1XU-1HL	35 – 70	533966-000
EPKJ-24C/1XU-1HL	95 – 240	110743-011
EPKJ-24D/1XU-1HL	300 – 400	818203-011
Paper insulated lead covered single core		
EPKJ-24B/1HL-1HL	35 – 70	712089-000
EPKJ-24C/1HL-1HL	95 – 240	122185-011
EPKJ-24D/1HL-1HL	300 – 400	861101-000
XLPE to paper insulated lead sheathed 3-core unarmoured		
EPKJ-24C/3XU-3SB	95 – 240	013208-011
XLPE to paper insulated lead sheathed 3-core armoured		
EPKJ-24C/3XU- 3SB-W	95 – 240	600096-011
XLPE to paper insulated lead covered 3-core unarmoured.		
EPKJ-24C/3XU-3HL	95 – 240	634461-011
EPKJ-24D/3XU-3HL	300 – 400	736647-011
XLPE single core to paper insulated lead sheathed 3-core		
EPKJ-24A/1XU-3SB	25	655611-000
EPKJ-24B/1XU-3SB	35 – 70	866971-011
EPKJ-24C/1XU-3SB	95 – 240	972354-011
EPKJ-24D/1XU-3SB	300 – 400	025566-011
XLPE single core to paper insulated lead sheathed 3-core		
EPKJ-24B/1XU-3HL	35 – 70	026840-000
EPKJ-24C/1XU-3HL	95 – 240	861100-011
EPKJ-24D/1XU-3HL	300 – 400	338149-000

NOTE

SB for 3-core paper cables (screened or belted) with overall metal sheath.
HL for paper cables with lead sheath on each core.
Where possible use MXSU and MXSW product.

EPKJ

Raychem Medium Voltage Heat Shrink Cable Joints up to 36 kV

FEATURES

- Pre-engineered range taking heat-shrinkable tubings incorporating precisley engineered impedance stress control. EPKJ universal joints are suitable for a wide range of connectors and cable sizes with no limitations on shelf life

APPLICATIONS

- Suitable for polymeric, rubber and paper insulated MIND cables single and three core, armoured and non-armoured

CONFORMS TO

- CENELEC and IEC standards

Raychem medium voltage heat shrink cable joints up to 36 kV



Product name	Conductor size (mm ²)	Part number
XLPE TO XLPE		
EPKJ-36A/1XU-1XU	50 – 70	116908-011
EPKJ-36B/1XU-1XU	95 – 150	407944-011
EPKJ-36C/1XU-1XU	185 – 400	682466-011
EPKJ-36D/1XU-1XU	500 – 630	698309-011
EPKJ-36A/3XU- 3XU-W	50 – 70	653639-011
EPKJ-36B/3XU- 3XU-W	95 – 150	245043-011
EPKJ-36C/3XU- 3XU-W	185 – 400	868075-011
XLPE to paper insulated lead covered single core		
EPKJ-36A/1XU-1HL	50 – 70	933038-011
EPKJ-36B/1XU-1HL	95 – 150	093715-011
EPKJ-36C/1XU-1HL	185 – 400	697197-011
EPKJ-36D/1XU-1HL	500 – 630	291626-011
SMOE-64222	500 poly to 1000 mm ²	CS9849-011
Paper insulated lead covered single core		
EPKJ-36B/1HL-1HL	95 – 150	093715-011
EPKJ-36C/1HL-1HL	185 – 400	105526-011
EPKJ-36D/1HL-1HL	500 – 630	928072-011
XLPE to paper insulated lead sheathed 3-core armoured		
EPKJ-36C/3XU- 3SB-W-GB01	185 – 240	CU8132-011
EPKJ-36B/3SB- 3SB-W	95 – 150	267335-000
EPKJ-36C/3SB- 3SB-W	185 – 400	012579-011
XLPE single core to paper insulated lead sheathed 3-core		
EPKJ-36A/1XU-3HL	50 – 70	756137-000
EPKJ-36B/1XU-3HL	95 – 150	018099-011
EPKJ-36C/1XU-3HL	185 – 400	021838-011
XLPE single core to paper insulated lead sheathed 3-core		
EPKJ-36A/1XU-3SB	50 – 70	348453-000
EPKJ-36B/1XU-3SB	95 – 185	016746-011
EPKJ-36C/1XU-3SB	185 – 400	815876-011

EPKJ

Joint selection chart - choose one figure from the left hand column of each table

Typical part number: EPKJ

17

C

3XU

3SB

-W

Voltage

Cable size

Insulation - Cable 1

Insulation - Cable 2

Armour

Voltage class	
17	11 – 17.5 kV
24	22 kV
36	33 kV

Size in mm²	11 kV	17.5 kV	22 kV	33 kV*
A	35 – 70	25 – 50	25	50 – 70
B	95 – 185	70 – 150	35 – 70	95 – 150
C	240 – 400	185 – 300	95 – 240	185 – 400
D	500 – 630	400 – 500	300 – 400	500 – 630

Cable 1 No. of cores	
1	for single-core cables
3	for 3-core cables

Insulation type	
XU	for polymeric (EPR or XLPE)
HL	for paper cables with lead sheath on each core
SB	for 3-core paper cables (screened or belted) with overall metal sheath

Cable 2 No. of cores	
1	for single-core cables
3	for 3-core cables

Insulation type	
XU	for polymeric (EPR or XLPE)
HL	for paper cables with lead sheath on each core
SB	for 3-core paper cables (screened or belted) with overall metal sheath

Armour**	
W	only to be used with 3c - 3c SWA cables

*

For 6.6 kV or 33 kV joint selection, contact your TE specialist distributor or your local TE office.

**

For single-core aluminium wire armoured cables, armour kit SMOE 61293 is required in addition to the joint kit.

MXSU/MXST/MXSW/MXAW

Joint up to 36 kV with Mechanical Connectors

FEATURES

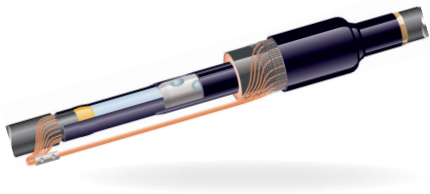
- Pre-engineered range taking heat-shrinkable tubings incorporating precisley engineered impedance stress control; MXSU/MXST/MXSW/MXAW joints are supplied complete with mechanical phase and screen connectors suitable for a wide range of conductor sizes with no limitations on shelf life

APPLICATIONS

- Suitable for polymeric 1-core, 3-core, armoured and unarmoured cables

BENEFITS

- Tested in accordance to CENELEC and IEC standards



SELECTION INFORMATION: DIMENSIONS SHOWN IN MILLIMETERS

Inline joint for 3 core poly cables with copper wire shield, without armour

Mechanical Connectors included	12 kV	24 kV	Diameter Conductor	Diameter over Core insulation	Diameter Cable Over sheath
MXSU-3311	25-95	-	5.2 - 12.0 mm	13.2 - 21.8 mm	40 - 61 mm
MXSU-3321	70-150	-	8.7 - 15.0 mm	17.6 - 24.3 mm	45 - 68 mm
MXSU-3331	95-240	-	10.3 - 19.2 mm	18.5 - 29.4 mm	53 - 77 mm
MXSU-3332	150-300	-	12.9 - 21.6 mm	21.6 - 31.4 mm	59 - 85 mm
MXSU-5311	-	25-95	5.2 - 12.0 mm	17.9 - 26.0 mm	48 - 72 mm
MXSU-5321	-	50-150	7.2 - 15.0 mm	20.2 - 29.5 mm	55 - 80 mm
MXSU-5331	-	95-240	10.3 - 19.2 mm	23.0 - 33.6 mm	62 - 89 mm
MXSU-5332	-	150-300	12.9 - 21.6 mm	25.0 - 35.5 mm	70 - 96 mm

Inline joint for 3 core poly cables with copper wire shield, and steel tape armour

Mechanical Connectors included	12 kV	24 kV	Diameter Conductor	Diameter over Core insulation	Diameter Cable Over sheath
MXST-3331	95-240	-	10.3 - 19.2 mm	17.6 - 29.4 mm	60 - 80 mm
MXST-3332	150-300	-	12.9 - 21.6 mm	22.0 - 31.4 mm	64 - 85 mm
MXST-5331	-	95-240	10.3 - 19.2 mm	23.0 - 33.6 mm	70 - 90 mm
MXST-5332	-	150-300	12.9 - 21.6 mm	25.0 - 35.5 mm	76 - 95 mm

Inline joint for 3 core poly cables with copper tape shield and steel wire armour

Mechanical Connectors included	12 kV	24 kV	Diameter Conductor	Diameter over Core insulation	Diameter Cable Over sheath
MXSW-3331	95-240	-	10.3 - 19.2 mm	17.6 - 29.4 mm	60 - 80 mm
MXSW-3332	150-300	-	12.9 - 21.6 mm	22.0 - 31.4 mm	64 - 85 mm
MXSW-5331	-	95-240	10.3 - 19.2 mm	23.0 - 33.6 mm	70 - 90 mm
MXSW-5332	-	150-300	12.9 - 21.6 mm	25.0 - 35.5 mm	76 - 95 mm

Note: For any other cable construction, please contact your local sales representative



Inline joint for 1 core poly cables with copper wire shield without armour

Mechanical Connectors included	12 kV	24 kV	36 kV	Diameter Conductor	Diameter over Core insulation	Diameter Cable Over sheath
MXSU-3111	25-95	-	-	5.2 - 12.0 mm	13.2 - 21.8 mm	23 - 32 mm
MXSU-3121	70-150	-	-	8.7 - 15.0 mm	17.6 - 24.3 mm	25 - 38 mm
MXSU-3131	95-240	-	-	10.3 - 19.2 mm	17.6 - 29.4 mm	26 - 40 mm
MXSU-3132	150-300	-	-	12.9 - 21.6 mm	21.6 - 30.4 mm	29 - 43 mm
MXSU-3141	240-400	-	-	17.8 - 24.6 mm	25.7 - 32.6 mm	33 - 47 mm
MXSU-3151	500	-	-	25.5 - 27.6 mm	33.8 - 37.2 mm	44 - 50 mm
MXSU-3161	630	-	-	29.0 - 32.5 mm	37.5 - 40.0 mm	47 - 54 mm
MXSU-3171	800	-	-	32.0 - 33.8 mm	39.5 - 42.6 mm	52 - 57 mm
MXSU-3181	1000	-	-	38.5 - 39.2 mm	45.0 - 47.6 mm	59 - 64 mm
MXSU-5101	-	oct-35	-	3.7 - 7.5 mm	15.0 - 22.0 mm	17 - 33 mm
MXSU-5111	-	25-95	-	5.2 - 12.0 mm	17.9 - 26.0 mm	25 - 38 mm
MXSU-5121	-	50-150	-	7.2 - 15.0 mm	20.2 - 29.5 mm	28 - 38 mm
MXSU-5131	-	95-240	-	10.3 - 19.2 mm	23.0 - 33.6 mm	30 - 43 mm
MXSU-5132	-	150-300	-	12.9 - 21.6 mm	25.0 - 35.5 mm	33 - 48 mm
MXSU-5141	-	240-400	-	17.8 - 24.6 mm	29.9 - 38.8 mm	35 - 49 mm
MXSU-5151	-	500	-	25.5 - 27.6 mm	37.2 - 41.6 mm	48 - 54 mm
MXSU-5161	-	630	-	29.0 - 32.5 mm	39.2 - 44.7 mm	50 - 58 mm
MXSU-5171	-	800	-	32.0 - 33.8 mm	44.8 - 46.9 mm	58 - 61 mm
MXSU-5181	-	1000	-	38.5 - 39.2 mm	49.4 - 53.2 mm	64 - 67 mm
MXSU-6111	-	-	35-95	6.0 - 12.0 mm	24.0 - 30.0 mm	32 - 43 mm
MXSU-6121	-	-	70-150	8.7 - 15.0 mm	26.2 - 34.5 mm	34 - 44 mm
MXSU-6131	-	-	150-300	13.9 - 21.6 mm	31.1 - 39.6 mm	38 - 53 mm
MXSU-6141	-	-	240-400	17.8 - 24.6 mm	36.2 - 42.8 mm	40 - 54 mm
MXSU-6151	-	-	500	25.5 - 29.2 mm	40.1 - 46.6 mm	52 - 60 mm
MXSU-6161	-	-	630	29.0 - 32.5 mm	45.8 - 50.5 mm	55 - 68 mm
MXSU-6171	-	-	800	32.0 - 33.8 mm	50.1 - 53.4 mm	62 - 66 mm
MXSU-6181	-	-	1000	38.5 - 39.2 mm	55.7 - 58.8 mm	69 - 73 mm

Note: For armoured and tape shield cables, please contact your local sales representative

Inline joint for 1 core poly cables with copper wire or tape shield with aluminium wire armour

Mechanical Connectors included	24 kV	Diameter Conductor	Diameter over Core insulation	Diameter Cable Over sheath
MXAW-5131	95-185	10.3 - 17.6 mm	23.0 - 31.2 mm	37 - 43 mm
MXAW-5132	150-300	12.9 - 21.6 mm	25.8 - 34.6 mm	40 - 48 mm
MXAW-5141	240-400	17.8 - 24.6 mm	29.4 - 38.8 mm	44 - 54 mm
MXAW-5151	500	25.5 - 27.6 mm	37.2 - 41.6 mm	48 - 56 mm
MXAW-5161	630	29.0 - 32.5 mm	39.2 - 44.7 mm	50 - 60 mm

Note: For cable constructions or voltages not listed, please contact your local sales representative

SXSU/SXST/SXSW/SXAW

Joints for Polymeric Insulated Cables from 12 kV up to 36 kV

FEATURES

- Pre-engineered, range taking and heat-shrinkable tubings which incorporate precisely engineered impedance stress control;
- SXSU/SXST/SXSW/SXAW joints are suitable for a wide range of conductor sizes with no limitations on shelf life

APPLICATIONS

- Suitable for polymeric 1-core, 3-core, armoured and unarmoured cables

BENEFITS

- Tested in accordance to CENELEC and IEC standards



SELECTION INFORMATION: DIMENSIONS SHOWN IN MILLIMETERS

Inline joint for 1-core polymeric cables with copper wire shield, without armour

Kit Number	12 kV	24 kV	36 kV	Diameter over Core insulation	Diameter Cable oversheath	Connector dimensions max. diameter/max.length
SXSU-3111	35-70	-	-	15,4 - 20,2 mm	23 - 29 mm	23 mm / 110 mm
SXSU-3121	95-185	-	-	17,6 - 26,9 mm	25 - 37 mm	29 mm / 160 mm
SXSU-3131	185-300	-	-	22,0 - 31,4 mm	29 - 43 mm	34 mm / 180 mm
SXSU-3141	300-500	-	-	28,4 - 38,8 mm	36 - 52 mm	44 mm / 220 mm
SXSU-4111	50-70	-	-	15,4 - 20,2 mm	23 - 29 mm	22 mm / 110 mm
SXSU-4121	95-185	-	-	17,6 - 26,9 mm	25 - 37 mm	29 mm / 160 mm
SXSU-4131	185-300	-	-	23,2 - 31,4 mm	29 - 43 mm	36 mm / 180 mm
SXSU-4141	400-630	-	-	29,8 - 42,5 mm	40 - 52 mm	52 mm / 250 mm
SXSU-4151	800-1200	-	-	39,4 - 50,0 mm	48 - 66 mm	62mm / 280 mm
SXSU-5121	-	25-95	-	17,6 - 26,0 mm	25 - 37 mm	23 mm / 120 mm
SXSU-5131	-	95-240	-	23,2 - 33,6 mm	28 - 44 mm	34 mm / 140 mm
SXSU-5141	-	240-500	-	29,8 - 41,6 mm	33 - 52 mm	44 mm / 230 mm
SXSU-5151	-	630-800	-	39,4 - 48,0 mm	48 - 66 mm	58 mm / 250 mm
SXSU-5161	-	1000-1200	-	49,4 - 56,2 mm	55 - 75 mm	62 mm/ 280 mm
SXSU-6121	-	-	35-95	24,0 - 31,4 mm	32 - 41 mm	22 mm / 140 mm
SXSU-6131	-	-	95-150	26,4 - 34,4 mm	35 - 46 mm	29 mm / 160 mm
SXSU-6141	-	-	185-400	31,9 - 43,7 mm	40 - 54 mm	42 mm / 220 mm
SXSU-6151	-	-	500-800	42,9 - 53,4 mm	55 - 66 mm	58 mm / 250 mm
SXSU-6161	-	-	800-1200	46,2 - 61,5 mm	55 - 73 mm	62 mm / 280 mm
SXSU-6122	-	-	35-150	24,0 - 34,4 mm	33 - 44 mm	29 mm / 160 mm
SXSU-6132	-	-	150-300	30,8 - 40,5 mm	36 - 52 mm	38 mm / 160 mm
SXSU-6142	-	-	400-630	40,1 - 50,5 mm	40 - 62 mm	52 mm / 250 mm
SXSU-6152	-	-	800-1200	45,6 - 61,5 mm	55 - 76 mm	62 mm / 280 mm

Note: For copper tape shield or armoured cables, please contact your local sales representative.

Inline joint for 3-core polymeric cables with copper wire shield, without armour

Kit Number	12 kV	24 kV	36 kV	Diameter over Core insulation	Diameter Cable oversheath	Connector dimensions max. diameter/max.length
SXSU-3311	35-70	-	-	15,4 - 20,2 mm	40 - 57 mm	23 mm / 110 mm
SXSU-3321	95-185	-	-	17,6 - 26,9 mm	53 - 73 mm	29 mm / 160 mm
SXSU-3331	185-300	-	-	22,0 - 31,4 mm	63 - 82 mm	34 mm / 180 mm
SXSU-4302	16-35	-	-	13,2 - 17,3 mm	38 - 49 mm	17 mm / 100 mm
SXSU-4312	50-70	-	-	15,4 - 20,2 mm	46 - 57 mm	22 mm / 110 mm
SXSU-4322	95-185	-	-	17,6 - 26,9 mm	53 - 73 mm	29 mm / 160 mm
SXSU-4332	185-300	-	-	23,2 - 31,4 mm	63 - 82 mm	36 mm / 180 mm
SXSU-5322	-	25-95	-	17,6 - 26,0 mm	48 - 72 mm	23 mm / 120 mm
SXSU-5332	-	95-240	-	23,2 - 33,6 mm	62 - 89 mm	34 mm / 140 mm
SXSU-5342	-	240-500	-	29,8 - 41,6 mm	78 - 100 mm	44 mm / 230 mm

Note: For copper tape shield or armoured cables, please contact your local sales representative.

Inline joint for 3-core polymeric cables with copper wire shield and steel tape armour

Kit Number	12kV	Diameter over Core insulation	Diameter Cable oversheath	Connector dimensions max. diameter/max.length
SXST-4303	16-35	13,2-17,3 mm	38-52 mm	17 mm/ 100 mm
SXST-4313	50-70	15,4-20,2 mm	48-57 mm	22 mm/ 110 mm
SXST-4323	95-185	17,6-26,9 mm	56-73 mm	29 mm/ 160 mm
SXST-4333	185-300	23,2-31,4 mm	68-84 mm	36 mm/ 180 mm

Note: For tape shield cables, please contact your local sales representative.

Inline joint for 3-core polymeric cables with copper wire shield and steel wire armour

Kit Number	12kV	Diameter over Core insulation	Diameter Cable oversheath	Connector dimensions max. diameter/max.length
SXSW-4304	16-35	13,2-17,3 mm	38-54 mm	17 mm/ 100 mm
SXSW-4314	50-70	15,4-20,2 mm	48-60 mm	22 mm/ 110 mm
SXSW-4324	95-185	17,6-26,9 mm	56-75 mm	29 mm/ 160 mm
SXSW-4334	185-300	23,2-31,4 mm	68-86 mm	36 mm/ 180 mm

Note: For copper tape shield cables, please contact your local sales representative.

Inline joint for 1-core polymeric cables with aluminium wire armour

Kit Number	12 kV	24 kV	36 kV	Diameter over Core insulation	Diameter Cable oversheath	Connector dimensions max. diameter/max.length
SXAW-3121	95-185	-	-	17,6 - 26,9 mm	28 - 39 mm	28,5 mm / 140 mm
SXAW-3131	185-300	-	-	22,0 - 31,4 mm	33 - 45 mm	34 mm / 180 mm
SXAW-3141	400-500	-	-	28,4 - 38,8 mm	40 - 52 mm	44 mm / 220 mm
SXAW-3151	630-800	-	-	39,4 - 45,5 mm	53 - 59 mm	58 mm / 250 mm
SXAW-5121	-	50-95	-	17,6 - 26,0 mm	28 - 39 mm	23 mm / 120 mm
SXAW-5131	-	120-185	-	23,2 - 33,6 mm	33 - 44 mm	28,5 mm / 140 mm
SXAW-5141	-	240-400	-	29,8 - 38,8 mm	40 - 54 mm	38,5 mm / 220 mm
SXAW-5151	-	500-630	-	39,4 - 45,0 mm	54 - 64 mm	52 mm / 250 mm
SXAW-6122	-	-	50-95	24,0 - 31,4 mm	33 - 44 mm	23 mm / 120 mm
SXAW-6132	-	-	120-240	30,8 - 40,5 mm	44 - 54 mm	32 mm / 160 mm
SXAW-6142	-	-	300-630	40,1 - 50,5 mm	54 - 68 mm	52 mm / 250 mm

Note: For tape shield cables, please contact your local sales representative.

RICS

Raychem Insulated Adapter Termination System RICS for SF6-insulated Switchgear up to 24 kV

FEATURES

- Angled insulated adapter made of rubber, which does not require heat during installation
- The body and the termination are not shielded. During operation, all parts are considered to be live and must not be touched

APPLICATIONS

- For round and sector-shaped polymeric insulated single and 3-core cables
- Used in conjunction with termination type IXSU-F and EPKT
- Disconnection of the body is only permitted when power has been turned off
- Only for compression lugs (not included)

CONFORMS TO

- Tested in accordance to CENELEC HD.629.1.S2:2006, IEC 60502-4 and IEEE 48

RICS



Product name	Rated voltage kV	Cross-section mm ²	Part number
RICS-3133	12	70 – 300	CM2361-000
RICS-5123	24	25 – 70	555340-000
RICS-5133	24	95 – 185	753072-000
RICS-5143	24	240 – 300	892434-000

Note: For application information please contact technical services.

RCAB

Raychem Elastomeric Insulating Bushing Boot RCAB for Bushings up to 17.5 kV and 24 kV

FEATURES

- Tool free application
- High-performance insulation material
- Excellent track and erosion resistance
- Removable and reinstallable
- Connection can be energised immediately after installation

APPLICATIONS

- Indoor application
- Used to improve air clearance in cable boxes to improve phase-to-phase and phase-to-ground insulation

CONFORMS TO

- Tested in accordance to CENELEC HD.629.1

RCAB Application range



Product name	Bushing diameter (mm)	Part number
SM0E-62804	31 – 45	605557N001
SM0E-62803	46 – 70	894919N001

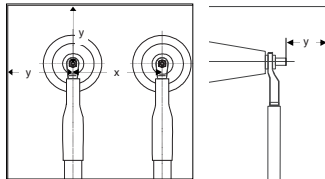
Bushing lug for termination



Universal screw
EXRM-1366

Product name	Bushing diameter (mm)	Part number
EXRM 1366	Bushing lug	527427N001

Min. dimension phase/earth and phase/phase for RCAB



Um (kV)	7.2	12	17.5
Min. clearance between live metal x (mm)	100	100	100
Min. clearance between live metal and ground y (mm)	60	60	75
Min. clearance between boots (mm)	12	12	12

CSJT

Cold-shrink Joint with Resin Injection for XLPE Cables up to 36 kV

FEATURES

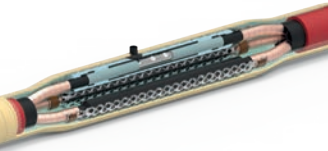
- The tape and resin outer sealing and protection system provides a reliable moisture seal, corrosion prevention and effective impact resistance;
- Pre-expanded, single piece silicone rubber joint body with high mechanical expansion capability allows a wide application range;
- Electrical stress control of the screen cut area by integrated conductive geometrical stress cones;
- Electrical stress control of the connector area by an integrated screened connection area (Farada cage)

APPLICATIONS

- Suitable for polymeric armoured and unarmoured cables;
- Hard-elastic polyurethane-type re-jacketing with excellent insulation properties, hydrolytic stability and hydrophobic characteristics for underground applications

BENEFITS

- Tested in accordance to CENELEC and IEC standards



24 kV three core cable Joint

Cross-section (mm²)	Kit description	Application range of diameter over insulation (mm)
35-150	CSJT-24B/3XU-3XU	18.6 - 28.0
120-300	CSJT-24C/3XU-3XU	23.0 - 34.6
400-500	CSJT-24E/3XU-3XU	33.8 - 50.0

24 kV single core cable Joint

Cross-section (mm²)	Kit description	Application range of diameter over insulation (mm)	Maximum diameter over outer sheath (mm)
35-95	CSJT-24B/1XU-1XU	18.6 - 28.0	40
120-240	CSJT-24C/1XU-1XU	23.0 - 34.0	47
300-400	CSJT-24D/1XU-1XU	25.7 - 38.0	54
500-630	CSJT-24E/1XU-1XU	33.8 - 50.0	65
800-1000	CSJT-24F/1XU-1XU	40.5 - 60.0	73

36 kV three core cable Joint

Cross-section (mm²)	Kit description	Application range of diameter over insulation (mm)
50-70	CSJT-36C/3XU-3XU	23.0 - 34.0
95-240	CSJT-36D/3XU-3XU	25.7 - 38.0
300-500	CSJT-36E/3XU-3XU	33.8 - 50.0

36 kV single core cable Joint

Cross-section (mm²)	Kit description	Application range of diameter over insulation (mm)	Maximum diameter over outer sheath (mm)
50-70	CSJT-36C/1XU-1XU	23.0 - 34.0	47
95-240	CSJT-36D/1XU-1XU	25.7 - 38.0	54
300-500	CSJT-36E/1XU-1XU	33.8 - 50.0	65
630-1000	CSJT-36F/1XU-1XU	40.5 - 60.0	73

The application range given in the table is based on polymeric insulated cable according to IEC 60502 standard with stranded circular conductors. Due to different conductor sharp or dimensions and cable constructions the minimum and maximum application range may be extendable. Please contact your local sales representative.

CSTI/CSTO

Cold-shrink Termination with Integrated Stress Control for XLPE Cables up to 24 kV

FEATURES

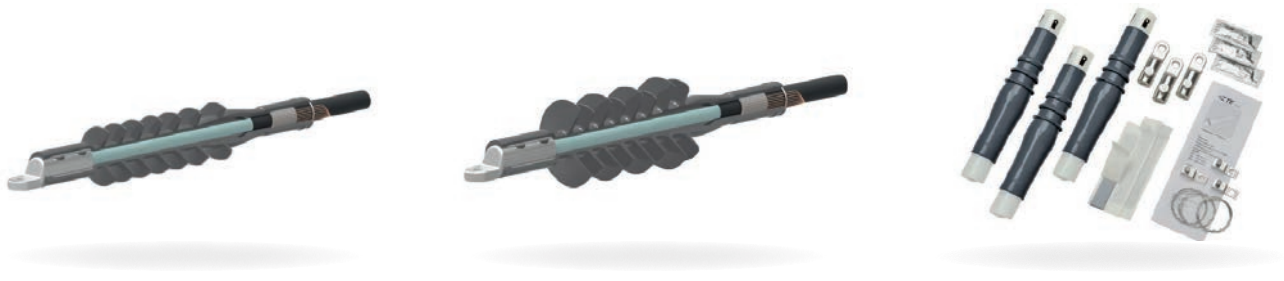
- Pre-expanded termination body with integrated stress control;
- The extra-long silicone stress cone is integrated with the termination and reduces positioning switchgear connection systems;
- Accommodates mechanical lug and compression lug

APPLICATIONS

- Suitable for indoor and outdoor use; 25 - 630 mm² conductor size

BENEFITS

- Tested in accordance to CENELEC
- HD.629.1.S2:2006, IEC 60502-4 and IEEE 48



Technical data

Voltage class	(kV)	6.35/11(12)	8.7/15(17.5)	12.7/22(24)
Cable insulation diameter	(mm)	13.7 – 40.0	15.7 – 50.0	17.9 – 52.0
Cross section range	(mm ²)	25 – 630	25 – 630	25 – 630
Max system voltage Um	(kV)	12	17.5	24
Basic impulse level	(kV)	95	95	125
Partial discharge at 2 U0	(pC)	<10	<10	<10
AC Voltage withstand, 5 min	(kV)	28.5	39	57

SELECTION INFORMATION: DIMENSIONS IN INCHES/FEET (MILLIMETERS/METERS)

12 kV 3-Core cable

Cross-section (mm ²)	Kit description	Diameter over insulation (mm)	Comment
Indoor-termination			
25-50	CSTI-12-2550-T	11.7 - 18	Tape shielded
70-120	CSTI-12-7012-T	16.9 - 26	Tape shielded
150-185	CSTI-12-1518-T	16.9 - 26	Tape shielded
240-400	CSTI-12-2440-T	24.7 - 38	Tape shielded
500	CSTI-12-500-T	32.5 - 50	Tape shielded
Outdoor-termination			
25-50	CSTO-12-2550-T	11.7 - 18	Tape shielded
70-120	CSTO-12-7012-T	16.9 - 26	Tape shielded
150-185	CSTO-12-1518-T	16.9 - 26	Tape shielded
240-400	CSTO-12-2440-T	24.7 - 38	Tape shielded
500	CSTO-12-500-T	32.5 - 50	Tape shielded

12 kV 1-Core cable

Cross-section (mm ²)	Kit description	Diameter over insulation (mm)	Comment
Indoor termination			
70-185	CSTI-12-7018-SC-T	16.9-26	Tape shielded, unarmored
240-400	CSTI-12-2440-SC-T	24.7-38	Tape shielded, unarmored
500-630	CSTI-12-5063-SC-T	32.5-50	Tape shielded, unarmored
Outdoor termination			
70-185	CSTO-12-7018-SC-T	16.9-26	Tape shielded, unarmored
240-400	CSTO-12-2440-SC-T	24.7-38	Tape shielded, unarmored
500-630	CSTO-12-5063-SC-T	32.5-50	Tape shielded, unarmored

24 kV 3-Core cable

Cross-section (mm ²)	Kit description	Diameter over insulation (mm)	Comment
Indoor termination			
35-95	CSTI-24-3595-T	16.9-26	Tape shielded
120-185	CSTI-24-1218-T	24.7-38	Tape shielded
240-300	CSTI-24-2430-T	24.7-38	Tape shielded
400	CSTI-24-400-T	24.7-38	Tape shielded
Outdoor termination			
35-95	CSTO-24-3595-T	16.9-26	Tape shielded
120-185	CSTO-24-1218-T	24.7-38	Tape shielded
240-300	CSTO-24-2430-T	24.7-38	Tape shielded
400	CSTO-24-400-T	24.7-38	Tape shielded

24 kV 1-Core cable

Cross-section (mm ²)	Kit description	Diameter over insulation (mm)	Comment
Indoor termination			
35-95	CSTI-24-3595-SC-T	16.9-26	Tape shielded, unarmored
120-185	CSTI-24-1218-SC-T	24.7-38	Tape shielded, unarmored
240-300	CSTI-24-2430-SC-T	24.7-38	Tape shielded, unarmored
400	CSTI-24-4063-SC-T	32.5-50	Tape shielded, unarmored
Outdoor termination			
35-95	CSTO-24-3595-SC-T	16.9-26	Tape shielded, unarmored
120-185	CSTO-24-1218-SC-T	24.7-38	Tape shielded, unarmored
240-300	CSTO-24-2430-SC-T	24.7-38	Tape shielded, unarmored
400	CSTO-24-4063-SC-T	32.5-50	Tape shielded, unarmored

The application range given in the table is based on polymeric insulated cable according to IEC 60502 standard with stranded circular conductors. Due to different conductor sharp or dimensions and cable constructions the minimum and maximum application range may be extendable. Please contact your local sales representative.

ELBC 810

Screened Separable Connector up to 12 kV, 800 A

FEATURES

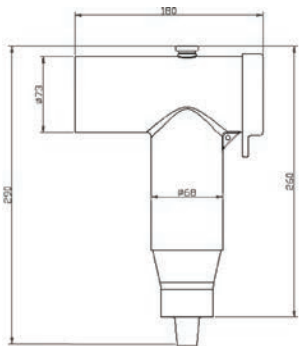
- ELBC screened separable connectors are made of high modified EPDM rubber which ensures the high dielectric strength and elongation at break;
- A thick conductive EPDM jacket protects the connection system against unintentional contact;
- Unique design makes it fully shielded and submersible when matched with the right bushing or plug;
- Easily accessible back plug with capacitive test point

APPLICATIONS

- ELBC is designed to fit 630/1250 A type “C” bushings, as specified by EN50180 and EN50181; A wide application range covers cable cross-sections from 25 sq. mm to 500 sq. mm;
- Compatible for use with mechanical or compression type lugs

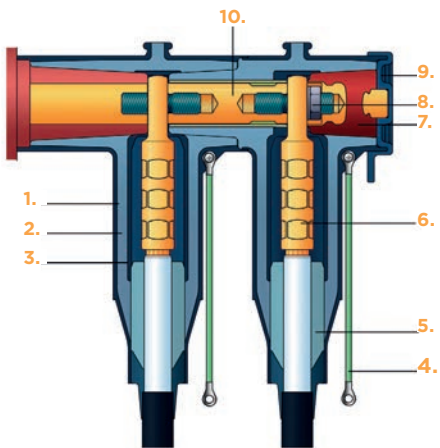
BENEFITS

- The screened separable connector exceeds CENELEC HD 629.1 S2 requirements, which includes BS, VDE and other international specifications



DESIGN & CONSTRUCTION

- Outer conductive layer
- Insulated layer
- Farady cage
- Earthing eye and grounding kit
- Stress cone
- Compression and mechanical lug
- Back plug
- Threaded pin kit
- End cap
- Threaded bolt



TECHNICAL DATA

Cable insulation range	15.5 - 37 mm
Cable cross-section range	35 - 400 mm ²
Max.Rated voltage	17.5 kV
Rated current	800 A
2Uo PD	< 5 pC
AC withstand, 5 min	54 kV
Thermal short, 1 s	54 kA
Dynamic short, 1 s	85 kA

Meet the international CENELEC HD 629.1 S2 specification and GB 12706.4:2008

SELECTION INFORMATION: DIMENSIONS SHOWN IN MILLIMETERS

6/10 (12) kV single-core, with compression lug

Front Connector	Rear Connector	Insulation Φ (mm)	Cross Section (mm ²)
ELBC-810-50C-SC-12	ELBC-CC-810-50C-SC-12	15.5-19	50
ELBC-810-70C-SC-12	ELBC-CC-810-70C-SC-12	15.5-19	70
ELBC-810-95C-SC-12	ELBC-CC-810-95C-SC-12	18.0-23	95
ELBC-810-120C-SC-12	ELBC-CC-810-120C-SC-12	18.0-23	120
ELBC-810-150C-SC-12	ELBC-CC-810-150C-SC-12	22.0-27	150
ELBC-810-185C-SC-12	ELBC-CC-810-185C-SC-12	22.0-27	185
ELBC-810-240C-SC-12	ELBC-CC-810-240C-SC-12	26.0-32	240
ELBC-810-300C-SC-12	ELBC-CC-810-300C-SC-12	26.0-32	300
ELBC-810-400C-SC-12	ELBC-CC-810-400C-SC-12	31.0-37	400
ELBC-810-500C-SC-12	ELBC-CC-810-500C-SC-12	31.0-37	500

6/10 (12) kV single-core, with mechanical lug

Front Connector	Rear Connector	Insulation Φ (mm)	Cross Section (mm ²)
ELBC-810-5070-SC-12	ELBC-CC-810-5070-SC-12	15.5-19	50-70
ELBC-810-9512-SC-12	ELBC-CC-810-9512-SC-12	18.0-23	95-120
ELBC-810-1518-SC-12	ELBC-CC-810-1518-SC-12	22.0-27	150-185
ELBC-810-2430-SC-12	ELBC-CC-810-2430-SC-12	26.0-32	240-300
ELBC-810-400-SC-12	ELBC-CC-810-400-SC-12	31.0-37	400

ELBC 824

Screened Separable Connector up to 24 kV, 800 A

FEATURES

- ELBC screened separable connectors are made of high modified EPDM rubber which ensures the high dielectric strength and elongation at break;
- A thick conductive EPDM jacket protects the connection system against unintentional contact;
- Unique design makes it fully shielded and submersible when matched with the right bushing or plug;
- Easily accessible back plug with capacitive test point

APPLICATIONS

- ELBC is designed to fit 630/1250 A type “C” bushings, as specified by EN50180 and EN50181; A wide application range covers cable cross-sections from 35 sq. mm to 400 sq. mm;
- Compatible for use with mechanical or compression type lugs

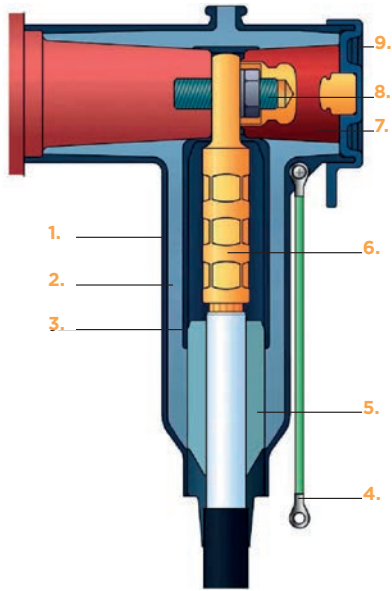
BENEFITS

- The screened separable connector exceeds CENELEC HD 629.1 S2 requirements, which includes BS, VDE and other international specifications



DESIGN & CONSTRUCTION

- Outer conductive layer
- Insulated layer
- Farady cage
- Earthing eye and grounding kit
- Stress cone
- Compression and mechanical lug
- Back plug
- Threaded pin kit
- End cap



TECHNICAL DATA

Cable insulation range	15.5 - 37 mm
Cable cross-section range	35 - 400 mm ²
Max.Rated voltage	24 kV
Rated current	800 A
Basic impulse level	125 kV
2Uo PD	< 5 pC
AC withstand, 5 min	54 kV
Thermal short, 1 s	54 kA
Dynamic short, 1 s	85 kA

Meet the international CENELEC HD 629.1 S2 specification and GB 12706.4:2008

SELECTION INFORMATION: DIMENSIONS SHOWN IN MILLIMETERS

12/20 (24) kV Single-core, copper conductor with compression copper lug

Front Connector	Rear Connector	Insulation Φ (mm)	Cross Section (mm ²)
ELBC-824-35C-SC	ELBC-CC-824-35C-SC	18-23	35
ELBC-824-50C-SC	ELBC-CC-824-50C-SC	18-23	50
ELBC-824-70C-SC	ELBC-CC-824-70C-SC	18-23	70
ELBC-824-95C-SC	ELBC-CC-824-95C-SC	22-27	95
ELBC-824-120C-SC	ELBC-CC-824-120C-SC	22-27	120
ELBC-824-150C-SC	ELBC-CC-824-150C-SC	26-32	150
ELBC-824-185C-SC	ELBC-CC-824-185C-SC	26-32	185
ELBC-824-240C-SC	ELBC-CC-824-240C-SC	26-32	240
ELBC-824-300C-SC	ELBC-CC-824-300C-SC	31-37	300
ELBC-824-400C-SC	ELBC-CC-824-400C-SC	31-37	400

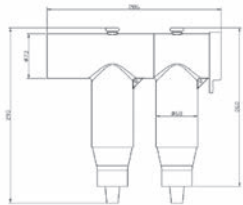
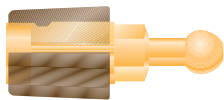
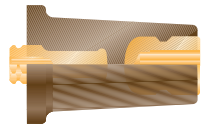
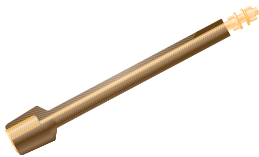
12/20 (24) kV Single-core with mechanical lug

Front Connector	Rear Connector	Insulation Φ (mm)	Cross Section (mm ²)
ELBC-824-3570-SC	ELBC-CC-824-3570-SC	18-23	35~70
ELBC-824-9512-SC	ELBC-CC-824-9512-SC	22-27	95~120
ELBC-824-1524-SC	ELBC-CC-824-1524-SC	26-32	150~240
ELBC-824-3040-SC	ELBC-CC-824-3040-SC	31-37	300~400

Trifurcation kits for 3-core cables

TRFC-H1	Heat Shrinkable trifurcation kits	3*1 M tubing and 1 pc breakout and 1 m earth braid	95-120
TRFC-C1	Cold Shrinkable trifurcation kits	3*500 mm tube and 1 pc breakout and 1.4 m earth braid	150-240
TRFC-C2	Cold Shrinkable trifurcation kits	6*500 mm tube and 1 pc breakout and 1.4 m earth braid	300-400

Accessories



Test Rod	
RSTI-68TR	310 mm
RSTI-68TRL	460 mm
RSTI-68TRA	Kit including 2 short and 1 long rods

Terminal Plug	
RSTI-68TP	

Earthing Adapter	
RSTI-68EA20	Ball Φ 20 mm
RSTI-68EA25	Ball Φ 25 mm

Single Connection	
Material for three phases	1* ELBC-824-xxxx (kit)

Live End Seal	
Material for three phases	1* ELBC-824-xxxx (kit) 1* RSTI 68TP

RSTI

Raychem Switchgear Connection System for CENELEC C1 (630 A) and C2 (1250 A) for 12-36 kV

FEATURES

- Angled prefabricated shielded adapter made of silicone rubber, which does not require heat during installation
- Integrated stress control. Separate termination not required
- 3-core kits include materials for core screening. Up to 2000 mm tail length
- Test point for capacitive voltage measurement
- Mechanical lugs included. Compression lugs on request
- The kits include materials for 3 phases

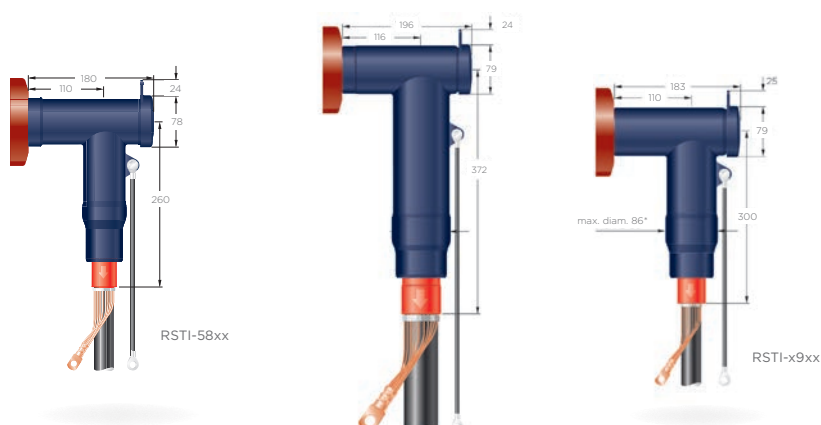
APPLICATIONS

- For round polymeric insulated single and 3-core cables
- For connection to insulator bushing type C1 (630 A) and C2 (1250A) in accordance with EN 50181
- Disconnection of the body is only permitted when power has been turned off

CONFORMS TO

- Tested in accordance to CENELEC HD 629.1 S2

RSTI Single connection single core



Product name	12 kV (mm)	24 kV (mm)	36 kV (mm)	Insul. diam (mm)	Part number
RSTI-5851	35 – 95	35 – 70	–	12.7 – 23.4	2364400-1
RSTI-5852	95 – 120	–	–	12.7 – 23.4	2364401-1
RSTI-5853	95 – 240	95 – 185	–	17.0 – 30.1	2364402-1
RSTI-5854	150 – 240	95 – 240	–	21.2 – 34.6	2364403-1
RSTI-5855	185 – 300	185 – 300	–	21.2 – 34.6	CM0013-011
RSTI-5856	240 – 400	–	–	21.2 – 34.6	CR5244-011
RSTI-3951	400	–	–	28.9 – 36.4	CR6086-011
RSTI-3952	500	–	–	28.9 – 36.4	CR6085-011
RSTI-3953	630	–	–	34.0 – 45.4	CR6077-011
RSTI-3954	800	–	–	34.0 – 45.4	CR6081-011
RSTI-5951	–	400	–	34.0 – 45.4	CR6082-011
RSTI-5952	–	500	–	34.0 – 45.4	CR6083-011
RSTI-5953	–	630	–	39.1 – 59.0	CR6084-011
RSTI-5954	–	800	–	39.1 – 59.0	CR6080-011
RSTI-6851	–	–	35 – 95	22.4 – 35.5	CR4949-011
RSTI-6852	–	–	95 – 150	22.4 – 35.5	CR4990-011
RSTI-6853	–	–	120 – 240	28.9 – 42.0	CR5011-011
RSTI-6855	–	–	185 – 300	28.9 – 42.0	CR5012-011
RSTI-6951	–	–	400	34.0 – 45.4	CR6079-011
RSTI-6952	–	–	500 – 630	39.1 – 59.0	CR6078-011
RSTI-6953	–	–	800	39.1 – 59.0	CR6087-011

Note: Mechanical lugs included. Compression lugs are available on request. Core screen kits for copper tape screens available on request (add suffix 01 to part number). Pins are required to couple RSTI-CC-58xx and RSTI-CC-68xx to RSTI-x95x, RSTI-SA.

RSTI-CC

Raychem Switchgear Connection System for CENELEC C1 (630 A) and C2 (1250 A) for 12-36 kV

FEATURES

- Angled prefabricated shielded parallel adapter made of silicone rubber, which does not require heat during installation
- Integrated stress control. Separate termination not required
- 3-core kits include materials for core screening. Up to 2000 mm tail length
- Test point for capacitive voltage measurement
- Mechanical lugs included. Compression lugs on request
- The kits include materials for 3 phases

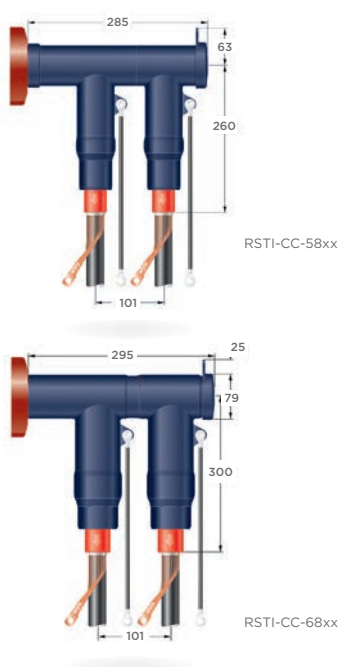
APPLICATIONS

- For parallel connection to adapter type RSTI-58xx
- For round polymeric insulated single and 3-core cables
- Disconnection of the body is only permitted when power has been turned off

CONFORMS TO

- Tested in accordance to CENELEC HD 629.1 S2

RSTI Parallel connection single core



Product name	12 kV (mm)	24 kV (mm)	36 kV (mm)	Insul. diam (mm)	Part number
RSTI-CC-5851	35 – 95	35 – 70	–	12.7 – 23.4	CM0094-011
RSTI-CC-5852	95 – 120	–	–	12.7 – 23.4	CM0095-011
RSTI-CC-5853	95 – 240	95 – 185	–	17.0 – 30.1	2364404-1
RSTI-CC-5854	150 – 240	95 – 240	–	21.2 – 34.6	2364405-1
RSTI-CC-5855	185 – 300	185 – 300	–	21.2 – 34.6	CM0099-011
RSTI-CC-5856	240 – 400	–	–	21.2 – 34.6	CR5240-011
RSTI-CC-3951	400	–	–	28.9 – 36.4	CS8877-011
RSTI-CC-3952	500	–	–	28.9 – 36.4	CS8875-011
RSTI-CC-3953	630	–	–	34.0 – 45.4	CS8874-011
RSTI-CC-3954	800	–	–	34.0 – 45.4	CS8884- 000
RSTI-CC-5951	–	400	–	34.0 – 45.4	CS8880- 000
RSTI-CC-5952	–	500	–	34.0 – 45.4	CS8879-011
RSTI-CC-5953	–	630	–	39.1 – 59.0	CS8872- 000
RSTI-CC-5954	–	800	–	39.1 – 59.0	CS8882-011
RSTI-CC-6851	–	–	35 – 95	22.4 – 35.5	CR7869-011
RSTI-CC-6853	–	–	120 – 240	28.9 – 42.0	CR7866-011
RSTI-CC-6855	–	–	185 – 300	28.9 – 42.0	CR7868-011
RSTI-CC-6951	–	–	400	34.0 – 45.4	CS8881-011
RSTI-CC-6952	–	–	500 – 630	39.1 – 59.0	CS8873-011
RSTI-CC-6953	–	–	800	39.1 – 59.0	CS8876-011

Note: Mechanical lugs included. Compression lugs are available on request. Core screen kits for copper tape screens available on request (add suffix 01 to part number). Pins are required to couple RSTI-CC-58xx and RSTI-CC-68xx to RSTI-x95x, RSTI-SA.

Trifurcation kits for screened 3-core cables

Product name Kit length 600 mm	Part number	Part number Kit length 1200 mm	Part number	"Dimensions over insulation (min. - max. mm)"	Overall diameter (min. - max. mm)
RSTI-TRF-02	CF9506-011	RSTI-TRF-02-1200	CP7143-011	17.6 – 35.6	50.0 – 90.0

RSTI accessories



Product name	Accessory type	Part number
RSTI-68TR; Length: 310 mm	Test rod	CN9357-011
RSTI-68TRL; Length: 460 mm	Test rod	CN9356-011
RSTI-68TRA; Kit includes 2 short and 1 long testrod	Test rod	CN9358-011
RSTI-68TP	Terminating plug	CS9958-000
RSTI-68EA20; Ball diameter: 20 mm	Earthing adapter	CS8406-011
RSTI-68EA25; Ball diameter: 25 mm	Earthing adapter	CS8405-011
RSTI-SA-PIN	Coupling Pin	CU2787-011
RSTI-68RC, one piece per set	Insulating Cap	EP5032-000



Test rod



Terminating plug



Earthing adapter



Insulating cap

RSTI-SA

Raychem Screened Surge Arrester System for 12-36 kV

FEATURES

- Angled screened surge arrester
- The conductive layer on the arrester and the insulating body protect against accidental contact
- Test point for capacitive voltage measurement
- The kits include materials for 3 phases

APPLICATIONS

- The single adapter is used to connect to type C bushings in accordance with EN 50181 in compact switchgear
- The parallel adapter is connected to RSTI-58xx type connectors

CONFORMS TO

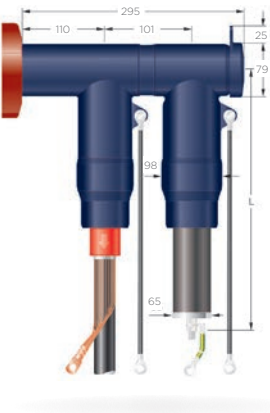
- Tested in accordance with IEC 60099-4 (May 2004)

RSTI-SA



Product name	Rated voltage kV	Part number
Single connection		
RSTI-68SA1210	12	CS8930-000
RSTI-68SA2410	24	CS8925-000
RSTI-68SA3610	36	CS8920-000
Parallel connection		
RSTI-CC-68SA1210	12	CS3113-000
RSTI-CC-68SA2410	24	CS3114-069
RSTI-CC-68SA3610	36	CS3036-000

Technical data for single and parallel connection



Discharge current In	10 kA
Current impulse 4/10 s	100 kA
Short circuit current IS	20 kA
Long-duration current impulse (1ms)	212 A

Residual voltages (kV)			
Voltage class UC	12	24	36
Rated voltage UR	15	30	45
Current impulse 8/20 s			
5 kA	39.1	78.2	117.3
10 kA	41.5	83.0	124.5
20 kA	45.7	91.4	137.1
Current impulse 1/20 s			
10 kA	43.9	87.8	131.7
Current impulse 1/20 s			
125 kA	31.5	63.1	94.7
500 kA	32.4	64.9	97.4

RSES 64xx

Raychem Screened Adapter System for CENELEC B Bushing 400 A for 24 and 36 kV

FEATURES

- Mechanical lugs suitable for copper and aluminium conductors
- Capacitive test point
- Complete kit including lugs facilitates installation and storage

APPLICATIONS

- Design fits 400 A bushings (interface "B") as specified by EN 50180 and EN 50181
- Cable cross-sections from 50 to 300mm²

CONFORMS TO

- The screened cable connector exceeds CENELEC HD 629.1 S2 requirements, which includes BS, VDE and other international specifications

RSES 6400 for single and three core cables including mechanical lugs



Product name	Rated voltage kV	Cross-section (mm) ²	Insul. diam (mm)	Part number
RSES-6451	24	70 – 95	22.4 – 35.5	CX5399-011
RSES-6452	24	95 – 240	22.4 – 35.5	CX5398-011
RSES-6454	24	185 – 300	22.4 – 35.5	CX5404-011
RSES-6451	36	50 – 95	22.4 – 35.5	CX5399-011
RSES-6452	36	95 – 150	22.4 – 35.5	CX5398-011
RSES-6453	36	120 – 240	28.9 – 42.0	CX5401-011
RSES-6455	36	185 – 300	28.9 – 42.0	CX5402-011

RSES and RSSS-52XX

TE's Raychem Screened Adapter System for CENELEC A Bushing 250 A up to 24 kV

FEATURES

- Range taking mechanical Shear Bolt cable lugs
- Hybrid material design for outstanding mechanical and electrical performance
- Reliable operation even under harsh environmental conditions
- Screened connector body for improved safety
- Molded cable adapter with integrated sealing for easier installation
- Optional Voltage Detection (VD) point
- Optional Metal Housing (MH)

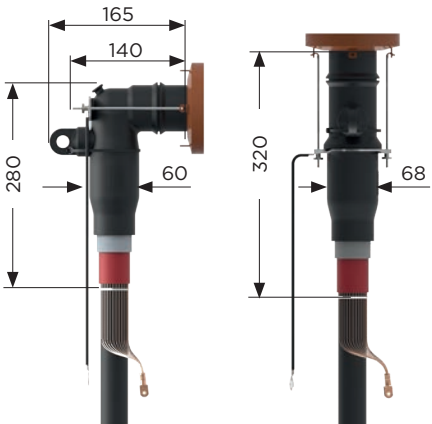
APPLICATIONS

- TE's Raychem Screened Elbow and Straight Separable connectors RSES/ RSSS are designed to connect single-core polymeric cables to medium voltage gas insulated switchgears and other equipments using bushings type "A" (according to EN 50180/EN 50181) specified for 250A continuous current.

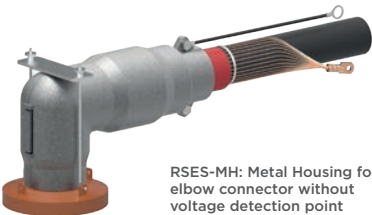
CONFORMS TO

- The RSES and RSSS connectors are compliant with CENELEC HD 629.1 S2 02/2006+A1:2008. and tested for a system voltage up to 24 kV

Design & Dimensions



RSES-VD: Elbow connector with voltage detection point RSSS-VD: Straight connector with voltage detection point



RSES-MH: Metal Housing for elbow connector without voltage detection point

TECHNICAL DATA	
Conductor Cross section Range	16 - 150 mm²
Diameter over conductor (round, stranded)	4.6 - 15.0 mm
Diameter over conductor (round, solid)	3.5 - 13.8 mm
Cable Insulation Diameter Range	12.7 - 28.5 mm
Maximum System Voltage	24 kV
Continuous Current Rating	250 A
Basic Impulse Level	125 kV
Partial Discharge at 2 U0	< 3 pc
AC Voltage Withstand, 5 min	57 kV
DC Voltage Withstand, 15 min	76 kV

TE's RSES and RSSS separable connectors pass a 100% routine test procedure including: AC Voltage Withstand and Partial Discharge Test.

PRODUCT SELECTION TABLE					
Kit Designation	Connector Type	Conductor cross-section (mm²) at system voltage level			Diameter over Insulation (mm)
		12 kV	17,5 kV	24 kV	
RSSS-525A	Straight	16 - 70	16 - 50	16	15.3 - 25.0
RSSS-525B	Straight	95	50 - 95	25 - 95	21.9 - 28.5
RSSS-525C	Straight	95 - 150	70 - 120	70 - 95	15.3 - 25.0
RSSS-525D	Straight	-	120 - 150	70 - 150	21.9 - 28.5
RSES-525A	Elbow	16 - 70	16 - 50	16	15.3 - 25.0
RSES-525B	Elbow	95	50 - 95	25 - 95	21.9 - 28.5
RSES-525C	Elbow	95 - 150	70 - 120	70 - 95	15.3 - 25.0
RSES-525D	Elbow	-	120 - 150	70 - 150	21.9 - 28.5

Default kits come without voltage detection point and metal housing, are designed for cables with wire shield and don't include accessories for earthing.

To add accessories to the kit's contents, please use the following kit modification codes:

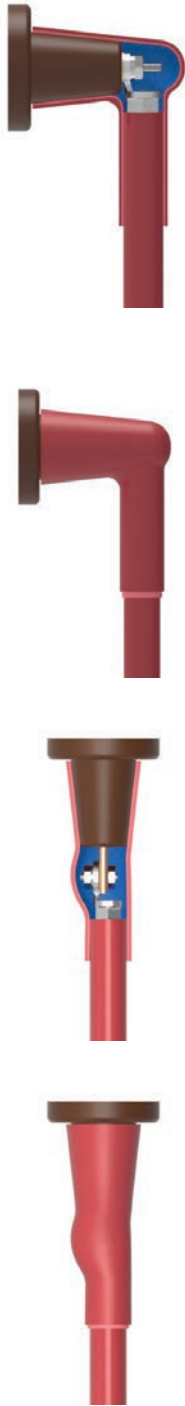
- Add "-E" to the end of the kit designation for a kit that includes wire shield earthing accessories (e.g. RSES-525A-E)
- Add "-01" to the end of the kit designation for a kit that includes Cu tape shield earthing accessories (e.g. RSES-525A-01)
- Add "-02" to the end of the kit designation for a kit that includes Al foil shield earthing accessories (e.g. RSES-525A-02)
- Add "-VD" to the type designation (RSES/RSSS) for a kit with voltage detection point (e.g. RSES-VD-525A)
- Add "-MH" to the type designation (RSES) for a kit with metal housing (e.g. RSES-MH-525A) [only compatible with elbows without voltage detection point.]

*Application range for conductors acc. to IEC 60228 class 2 Cu compacted. Application range for other combinations of conductor type and material on request.

RSRB

Raychem Heat-shrink Bushing Boots up to 11 kV

Boots



Product name	Application range	Mod code	Part number
Straight boots			
RSRB 4022	10 – 35 mm²	B05	203793-011
RSRB 4024	50 – 95 mm²	B06	890945-011
RSRB 4026	120 – 300 mm²	B07	174821-011
Right angle boots - long			
RSRB 4042	10 – 35 mm²	B08	363551-011
RSRB 4044	50 – 95 mm²	B09	257141-011
RSRB 4046	120 – 300 mm²	B10	718495-011
Right angle boots - short			
RSRB 4062	10 – 35 mm²	B15	166197-011
RSRB 4064	50 – 95 mm²	B16	317789-011
RSRB 4066	120 – 300 mm²	B17	975801-011

RPIT

Raychem Plug In Termination System up to 42 kV for Gas-insulated Switchgear up to 1250 A

FEATURES

- Shielded inline connection for gas insulated switchgears up to 42 kV
- The plug in termination system is metal-enclosed, hermetically insulated and suitable for submersion or outdoor use
- Special designs for wind power stations and offshore applications with bronze protection covers

APPLICATIONS

- Single core cables
- 50 - 630 mm² conductor size
- Inline bushings for connection type size 2 (800 A) and size 3 (1250 A) as per EN 50181

CONFORMS TO

- Tested in accordance with CENELEC HD629.1 S2

RPIT



Type	Size	Nominal current (A)	System voltage (kV)	Cross-section (mm²)	Diameter over conductor (mm)	"Diameter over insulation (mm)
RPIT- 321x	2	800	12	95-300	11.0-21.6	19.3-30.4
RPIT- 521x	2	800	24	50-300	7.7-21.6	20.2-34.6
RPIT- 621x	2	630	36/42	50-185	7.7-16.8	25.2-35.1
RPIT- 331x	3	1250	12	240-630	17.8-32.5	26.4-39.6
RPIT- 531x	3	1250	24	150-630	13.9-32.5	36.5-45.6
RPIT- 631x	3	1250	36/42	95-630	11.0-32.5	28.5-49.2

RSTF

Screened T-Connectors for Interface F 1250A up to 72.5 kV

FEATURES

- Meet EN 50673 standard
- Tested according to IEC 60840
- 100% routine tested
- End-to-end components traceability
- High performance and longevity in harsh environments
- Compact design for cables with cross sections from 95 mm² to 1200 mm²
- Featuring up to 1800A as combined continuous current rating for T-connector and coupling connector in parallel or inline connection

APPLICATIONS

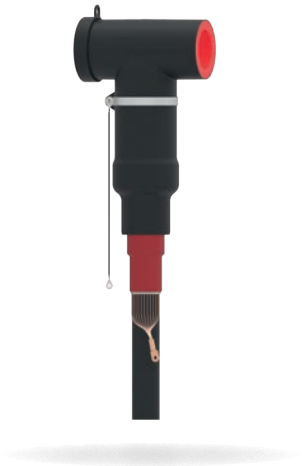
- Outer cone Screened separable T-connector for 72.5 kV type F bushings
- Suitable for flexible tower cable and subsea array cables

BENEFITS

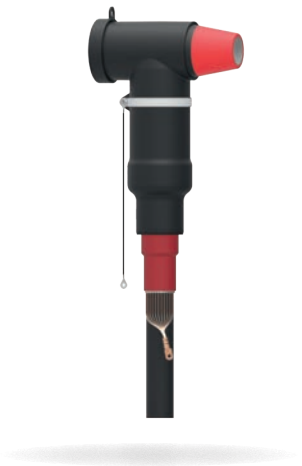
- Compact design for fast integration into the wind turbine
- Easy to handle in limited space
- Reduced installation time as no special tools are required
- Easy fitting onto the base connector thanks to our patented design and simple installation process
- More flexibility in wind turbine cabling
- State-of-the-art gapless ZnO surge arrester design that eliminates the need for metal enclosure
- Reliable performance in harsh environments as it is corrosion resistant and maintenance-free

RSTF

RSTF Base Connector



RSTF-CC Coupling Connector



RSTF-SA Surge Arrester



TECHNICAL DATA	
Conductor cross-section range	95 mm² - 1200 mm²
Maximum system voltage	72.5 kV
Continuous current rating	1250A
Lightning impulse withstand level	325 kV
Partial discharge at 1.5 U ₀	< 5 pc
Heating cycle voltage test (2 U ₀)	72 kV
AC voltage test (2.5 U ₀)	90 kV
Ø over cable insulation	28 mm – 70 mm