

Raychem heat shrink terminations for polymeric cables 52 / 72kV





Raychem termination systems for polymeric insulated cables 52/72kV

Application

The Tyco Electronics Raychem 52/72kV terminations are suitable for all climates, areas and environments, even severely polluted areas, and for all installation conditions, including top feed installation.

Our heat shrink accessories have been used by utilities and industrial companies around the world for more than 35 years. This ongoing field experience has made Tyco Electronics Energy Division a leader in materials science and technology for high-voltage applications. The Energy Division's materials technology is at the core of the development of our heat shrink terminations. The materials used in Tyco Electronics Raychem cable accessories have been extensively optimized with respect to product design and function, manufacturing and expected service environments.



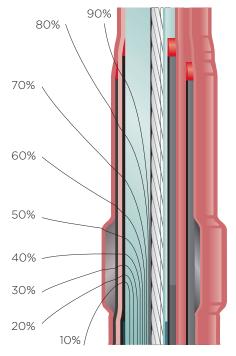
- Compact and modular design
- Heat-shrinkable stress control sleeves
- Non-tracking, heat-shrinkable outer insulation
- Water- and corrosion-resistant
- Different creepage distances available
- Easy to install
- Suitable for compression and mechanical lugs
- No special or expensive tools
- Lightweight components
- Unlimited shelf life under normal storage conditions
- No oil or compound filling
- Reduced waste for disposal
- Tested in accordance to IEEE 48 and IEC 60840
- Manufactured according to ISO 9001 and ISO 14001



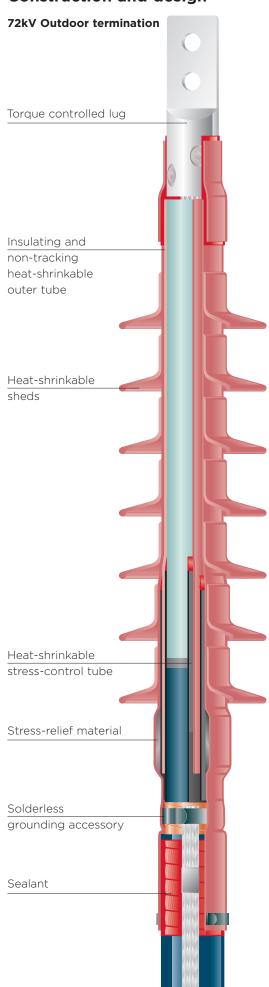




Stress control diagram



Construction and design





Torque-controlled lug

- Varity of different rods/palms available
- Body made of tinned aluminum alloy
- Torque-controlled shear-off bolts
- Suitable for aluminum and copper conductors (see brochure EPP-0850)



Sheds

- Due to the installation of several numbers of sheds creepage lengths above 40mm/kV are available and covering the most common and also extreme pollution levels
- Sheds have excellent tracking and erosion resistance characteristics



Insulating and non-tracking tube

- Insulating tubes are UV- and water-resistant and perform reliably even when exposed to sudden temperature variations
- Insulating materials conform to Tracking and Erosion Tests as per ASTM D2303 and IEC 112
- Insulating tubes have an excellent tracking and erosion resistance characteristics



Electrical stress control tube

 Electrical stress control tubes are used to smooth out the electrical field at the cable end; this is achieved by the unique resistive and capacitive properties of the heat-shrink material



Sealant

 Track-resistant sealant that melts during shrinking process results in a reliable barrier against moisture



Solderless grounding connection

- Solderless connection is used to connect metal shields
- Solderless connection can be provided for each available cable construction e.g. copper wires, metal sheath, CAS

Raychem heat shrink terminations for polymeric insulated cables 52/72kV **Technical Information**

Application range 52/72kV termination kits

	Diameter over prepared cable insulation	Diameter over cable sheath	
Size 1*	30 – 45 mm	≤ 60 mm	
Size 2	38 – 55 mm	≤ 70 mm	
Size 3	48 – 65 mm	≤ 80 mm	
Size 4	58 – 77 mm	≤ 100 mm	
Size 5**	70 – 86 mm	≤ 110 mm	

^{*}No 72kV Long Creepage termination kit available for this size

Application data 52/72kV termination kits

Standard terminations	52kV Indoor	52kV Outdoor	72kV Indoor	72kV Outdoor	72kV Long creepage
Termination length	700mm	850mm	950mm	1200mm	1500mm
Approx. creepage length	1220mm	1430mm	1600mm	2200mm	3000mm
Number of sheds	2	4	4	7	10
Approx. kit weight	6kg	6.5kg	7kg	7.5kg	9.5kg

Technical data 52/72kV termination

Standard terminations	52kV	72kV
Maximum voltage to ground	26kV	40kV
Basic impulse level	250kV	350kV
Max. continuous conductor operating temperature	90°C	90°C
Max. conductor emergency temperature	130°C	130°C
Conductor short circuit temperature	250°C	250°C

Tools for XLPE cables

Tools required for cable preparation can also be purchased or rented from Cable Services.



Cable stripper



Gas torch

Add-on

Fiber optic kit



Cable clamps









To place an order or for more information please contact your Cable Services sales team.

Cable Services - Wrexham

Rhosddu Industrial Estate, Rhosrobin, Wrexham LL11 4YZ. Tel: 01978 340450 Fax: 01978 311315 Email: sales@cableservices.co.uk

Cable Services - Stone

Unit 2 Douglas Park, Opal Way, Stone Business Park, Stone, Staffordshire ST15 0YJ Tel: 01785 825970 Fax: 01785 825977 Email: central@cableservices.co.uk

Cable Services - Liverpool

43 St. Johns Road. Liverpool L20 8AZ. Tel: 0151 9339022 Fax: 0151 9339765 Email: lpool@cableservices.co.uk

Smith Electrical - Glasgow

Unit 14 Block 8 Thornliebank Industrial Estate. Glasgow G46 8JH. Tel: 0141 621 2060 Fax: 0141 638 9996 Email: sales@smithelec.co.uk





www.cableservices.co.uk

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^{**} Not available for 52kV