



Raychem Heat-Shrink Terminations up to 69 kV

These terminations are suitable for all climates, areas and environments, even severely polluted areas, and for all installation conditions, including top feed installation. The terminations are easy to install without special tools. They are suitable for compression and mechanical lugs.



APPLICATIONS

TE's 46/69 kV terminations are suitable for all climates, areas and environments, even severely polluted areas, and for all installation conditions, including top feed installation.

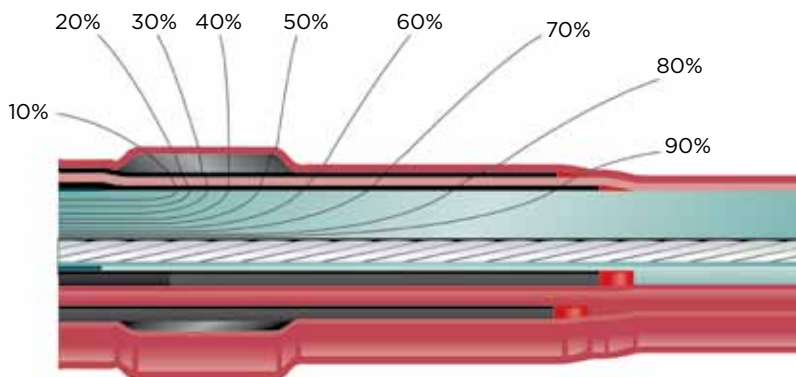
Our heat-shrink accessories have been used by utilities and industrial companies around the world for more than 35 years. This ongoing field experience has made TE Connectivity a leader in materials science and technology for high-voltage applications. TE's material technology is the core development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

KEY FEATURES

- 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



TORQUE-CONTROLLED LUG

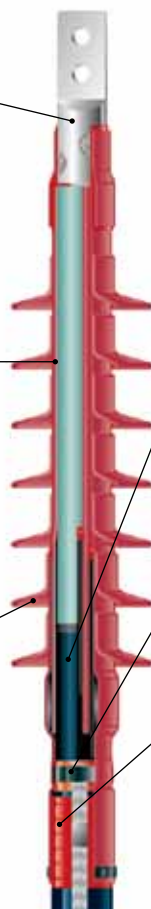
- Variety of different rods/palms available
- Body made of tinned aluminum alloy
- Torque-controlled shear-off bolts
- Suitable for aluminum and copper conductors

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 excellent tracking and erosion resistance characteristics

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

**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

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

SEALANT

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

APPLICATION RANGE 46 / 69 KV TERMINATION KITS

		Diameter over prepared cable insulation	Diameter over cable sheath
Size 1	inches (mm)	1.18-1.77 (30-45)	≤ 2.36 (60)
Size 2	inches (mm)	1.47-2.16 (38-55)	≤ 2.75 (70)
Size 3	inches (mm)	1.89-2.56 (48-65)	≤ 3.15 (80)
Size 4	inches (mm)	2.28-3.03 (58-77)	≤ 3.94 (100)
Size 5	inches (mm)	2.78-3.38 (70-86)	≤ 4.33 (110)

APPLICATION DATA 46 / 69 KV TERMINATION KITS

Standard terminations	46 kV Indoor	46 kV Outdoor	69 kV Indoor	69 kV Outdoor	69 kV Long creepage
Termination length - inches (mm)	27.6 (700)	33.5 (850)	37.5 (950)	47.25 (1200)	59 (1500)
Approx. creepage length	1220 mm	1430 mm	1600 mm	2200 mm	3000 mm
Number of sheds	2	4	4	7	10
Approx. kit weight - lbs (kg)	13.25 (6)	14.25 (6.5)	15.5 (7)	16.5 (7.5)	21 (9.5)

TECHNICAL DATA 46 / 69 KV TERMINATION

Standard terminations	46 kV	69 kV
Maximum voltage to ground	26 kV	40 kV
Basic impulse level	250 kV	350 kV
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

FOR MORE INFORMATION
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Tools

Tools required for cable preparation can also be purchased or rented from TE Connectivity .



Cable stripper



Gas torch



Straightening slide rails



Tool box



Heating blanket

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