tyco

Electronics

Energy Division

Termination Systems for Polymeric Insulated Cables 72 kV

The slim, compound-free Raychem 72 kV terminations are suitable for indoor and outdoor use on all polymeric cables.

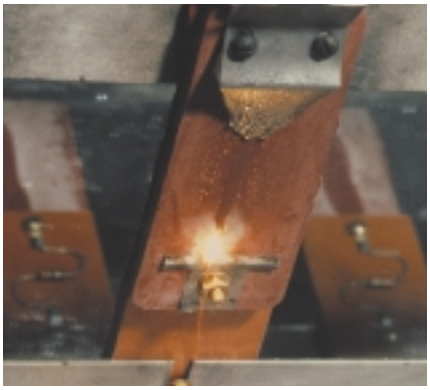
- Easy installation
- Non-tracking, heat-shrinkable outer insulation
- Heat-shrinkable stress control sleeves
- Pre-coated track resistant sealant
- Water and corrosion resistant
- Light-weight components
- High reliability

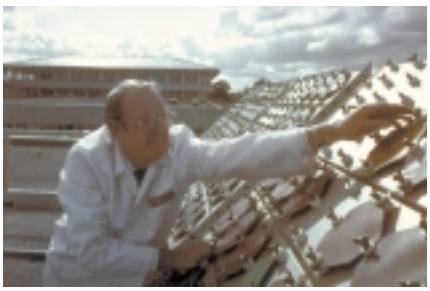
Raychem

Termination Systems for Polymeric Insulated Cables 72 kV

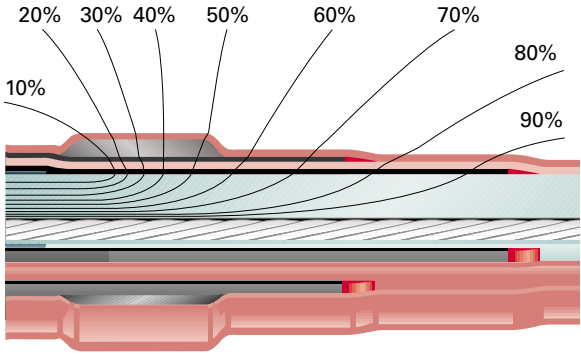
Versatile use
Raychem's 72 kV terminations are suitable for all climates and environments, even severely polluted areas, and for all installation conditions, including top feed installation. The factory-engineered kits contain a proven termination system which saves space, facilitates installation and enhances system reliability. The special design of the termination, which incorporates pre-coated track-resistant sealants that melt during the shrinking process, results in a reliable and lasting barrier against moisture and corrosion.

This is the kit ...
The kit contains a limited number of light-weight components with unlimited shelf life under normal storage conditions. The heat-shrinkable sleeves are extremely versatile, and accommodate a wide range of cable diameters. Three basic kits cover all cable sizes, permitting reduced inventories and an efficient stocking policy.
The light weight of the components and limited volume of the kits facilitate safe and easy transportation and handling. All components are included in a single box.
The set of pre-engineered components requires no special or expensive tools for installation. Installation involves a simple set of standard procedures with no soldering required. Neither does the termination require filling with oil or compound. Risk of leakage is avoided, and filling and topping-up time on the job site is saved.





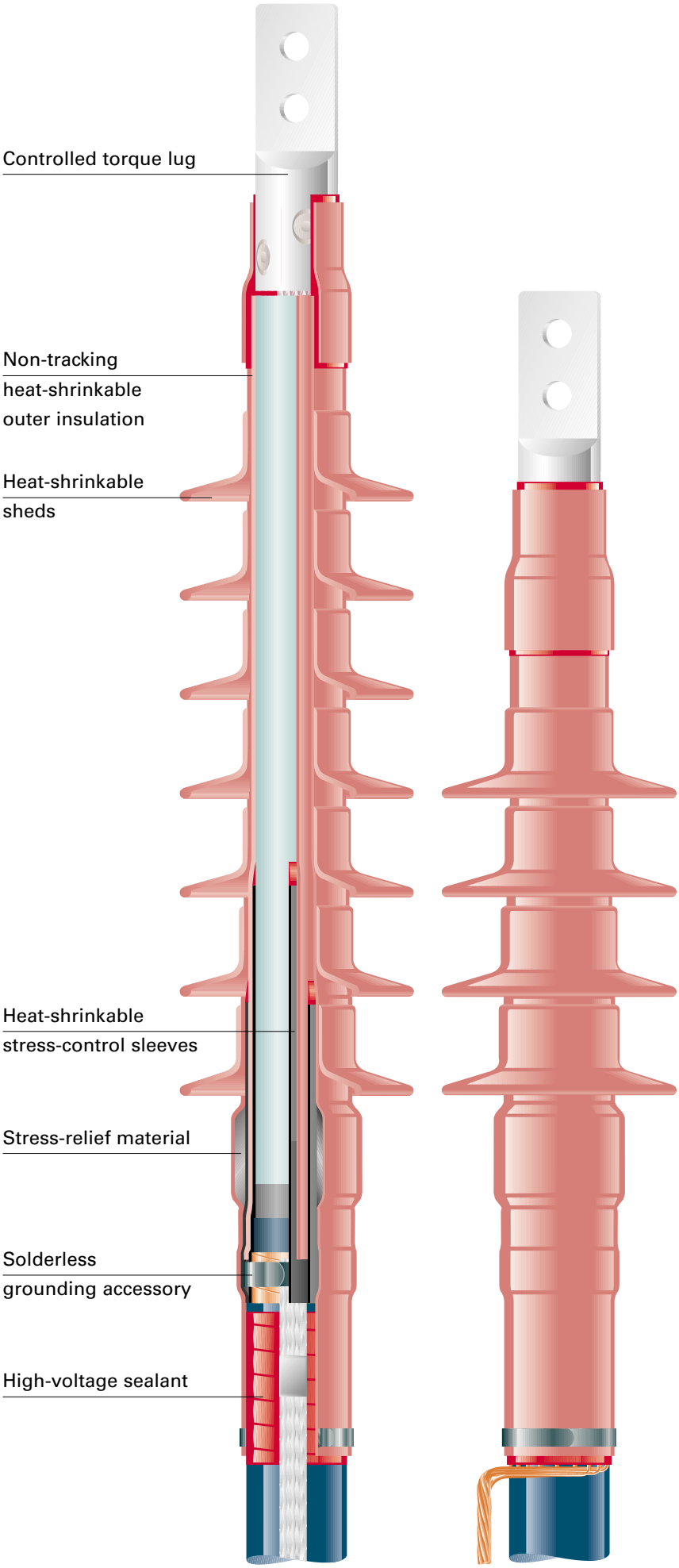
High-performance material
Raychem terminations are made of a specially formulated material with excellent tracking and erosion resistance characteristics. Accelerated and natural weathering tests which are constantly being carried out at Raychem facilities and independent test sites around the world have demonstrated that the terminations are UV and water resistant and perform reliably even when exposed to sudden temperature variations.
A Tracking and Erosion Test as per ASTM D2303 showed no tracking. IEC 112 was also conducted with no erosion or tracking observed.



Electrical stress control
Screened or shielded power cables require electrical stress control in order to reduce the electrical stresses at the end of the screen and at the termination surface to avoid partial discharge and surface corona under all service conditions. Corona or electrical discharge can ultimately destroy the cable insulation, causing premature failure.
Raychem's stress control sleeves have electrical properties that smooth out the electrical field at the end of the cable. This is achieved by the unique resistive and capacitive properties of the heat-shrinkable materials.

Construction and design

Outdoor



Indoor

A universal system

The material used in Raychem's 72 kV termination is suitable for all climates and environments, it is not susceptible to damage from transportation or vandalism. The termination has a discreet, low profile which allows it to blend into landscapes.

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Technical data

Cable insulation diameter range	33 to 77 mm (4 sizes)
	1.5 to 3.0 inches
Maximum voltage to ground	40 kV
Basic impulse level	outdoor ± 350 kV
	indoor ± 350 kV
Maximum continuous conductor operating temperature	90 °C
Maximum conductor emergency temperature	130 °C
1 s conductor short circuit temperature	250 °C
Creepage length*	indoor >1450 mm (57.0 inches)
	outdoor >2100 mm (82.6 inches)

* Longer creepage length on request

The termination has been tested in accordance with international specifications (e.g., IEEE 48, IEC 840, SEN 24 1434, ESI 09-16, EdF HN-62/5448/2, KEMA S10).
Qualification by KEMA (according to KEMA S10) and by Raychem (according to PPS 3015) are available on request.

The joint has been subjected to tests in accordance to international standards e.g. IEEE 404 1993, EDF HN-68-S-20, SEN 24 1434, ESI 09-16, IEC 840.
Qualification tests by KEMA (according to KEMA S10) and by Raychem (according to PPS 3015) are available on request.

Stripping tool for XLPE cable:
Raychem's stripping tool, designed to remove both semi-conductive screen and dielectric, will help professional jointers to overcome this difficulty.

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Argentina
Phone: ++54-11-4733 2277
Fax: ++54-11-4733 2267

Australia
Phone: ++61-2-4390 1111
Fax: ++61-2-4353 2497

Brazil
Phone: ++55-11-3611 1862
Fax: ++55-11-3611 2457

Canada
Phone: ++1-905-475 6222
Fax: ++1-905-470-4453

France
Phone: ++33-3-80583200
Fax: ++33-3-80341015

Mexico
Phone: ++52-5-729 0405
Fax: ++52-5-361-8545

Thailand
Phone: ++66-2-7394026 - 32
Fax: ++66-2-3260563 - 64

United States of America
Phone: ++1-800-327-6996
Fax: ++1-800-527-8350

United Kingdom
Phone: ++44-1772-325400
Fax: ++44-1772-726276

Tyco Electronics Raychem GmbH
Energy Division
Haidgraben 6, 85521 Ottobrunn/Munich, Germany
Phone: ++49-89-6089-0, Fax: ++49-89-6096345 **http://energy.tycoelectronics.com**