



Energy Division

## Raychem Outdoor Composite Termination OHVT for 123 kV up to 170 kV



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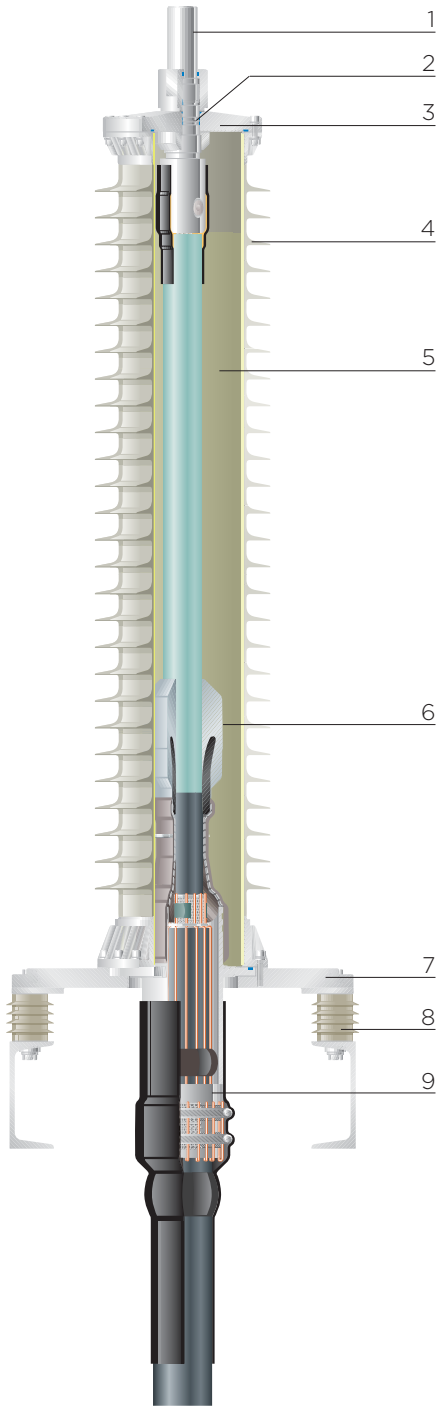
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### Application

The termination is designed for voltage classes up to 170kV and to operate under severe environmental conditions. Polymeric insulated cables of various designs can be adopted with respect to shielding and metal sheath. Composite housings with different creepage lengths up to 50 mm/kV are available covering the most common and also extreme pollution levels according to IEC 60071-1 1996, IEC 60071-2 1996 and IEEE-1313.1-1996.

### Features

- Pressure-tight and light weight composite housing
- Pre-fabricated and factory tested Si-rubber stress cone
- Torque-controlled conductor bolt
- H/S components used for sealing
- No special tools required to install the termination
- Si-oil filling (filling from the top)
- Isolated base plate for sectionalization
- Fittings made of corrosion resistant alloy
- Type tested according to IEC 60840 and IEEE 48 standards

### Major Design Elements

The pressure-tight composite housing (4) is made of a glass fibre reinforced resin GFR tube with silicone rubber sheds moulded INSITU to the tube. The fittings (3) and the base plate (7) are made of non-corrosive alloy. To fit the cable conductor, mechanical connectors with torque controlled shear-off bolts (1) or crimp-type connectors are available. The connector is suitable for stranded aluminium and copper conductors and can be modified to accept solid conductors as well. No special tool is required to install the mechanical connector. The flexible double sealing system (2) is installer-friendly and ensures persistent leak tightness of the top assembly. Heat-shrinkable polymeric tubing containing oil-resistant sealant encapsulates the connector barrel and the polymeric insulation transition. The silicone rubber stress cone (6) provides the electrical field control and can easily be applied without tools owing to its excellent elasticity. The interface between stress cone, cable insulation and inner GFR housing is filled from the top with silicone oil (5). The cable outer serving is adapted through a gland system (9), which addresses the individual shielding and armoring of the cable. Heat-shrinkable tubing is used to seal the cable gland. Support insulators (8) are supplied for sectionalization and sheath voltage testing when separate grounding is required.

- 1 Connector (mechanical or crimp)
- 2 Sealing system
- 3 Upper metal fitting
- 4 Composite housing
- 5 Oil-filling
- 6 Stress cone
- 7 Base plate
- 8 Support insulators
- 9 Gland and sealing

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale. Raychem, TE Logo and Tyco Electronics are trademarks.

**Energy Division – economical solutions for the electrical power industry: cable accessories, connectors & fittings, electrical equipment, instruments, lighting controls, insulators & insulation enhancement and surge arresters.**

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