



Raychem High Voltage Outdoor Termination  
up to 245 kV

**Raychem**  
from TE Connectivity

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## The Raychem OHVT System

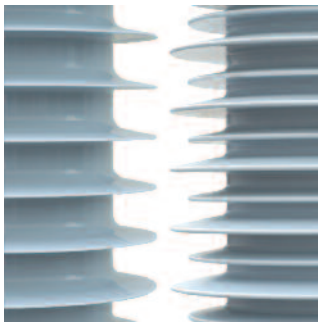
The high voltage outdoor termination (OHVT) is designed for voltage up to 245 kV and to operate under severe environmental conditions.

Polymeric insulated cables of various designs can be adopted with respect to shielding and metal sheath. Composite or porcelain housings with different creepage lengths are available covering the most common and also extreme pollution levels. The installation of the termination can be done by trained installer equipped with conventional tools.

The termination is designed according to following standards: IEC-60840, IEC-62067, IEC-60815, IEEE-48, IEEE-1313.



## Model variations



### Creepage

Variations according to individual requirements

- pollution class
- normal sheds
- alternating sheds



### Cable lug

Different types of cable lugs available

- mechanical with defined torque
- crimp octant or hexagonal



### Insulator

Variations of insulator materials

- composite
- porcelain

## System Add ons



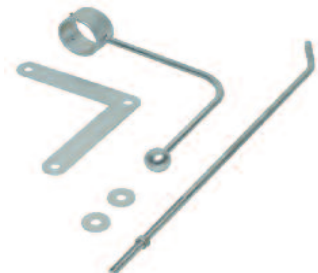
### Adapter

Variations to customize the termination contact bolt



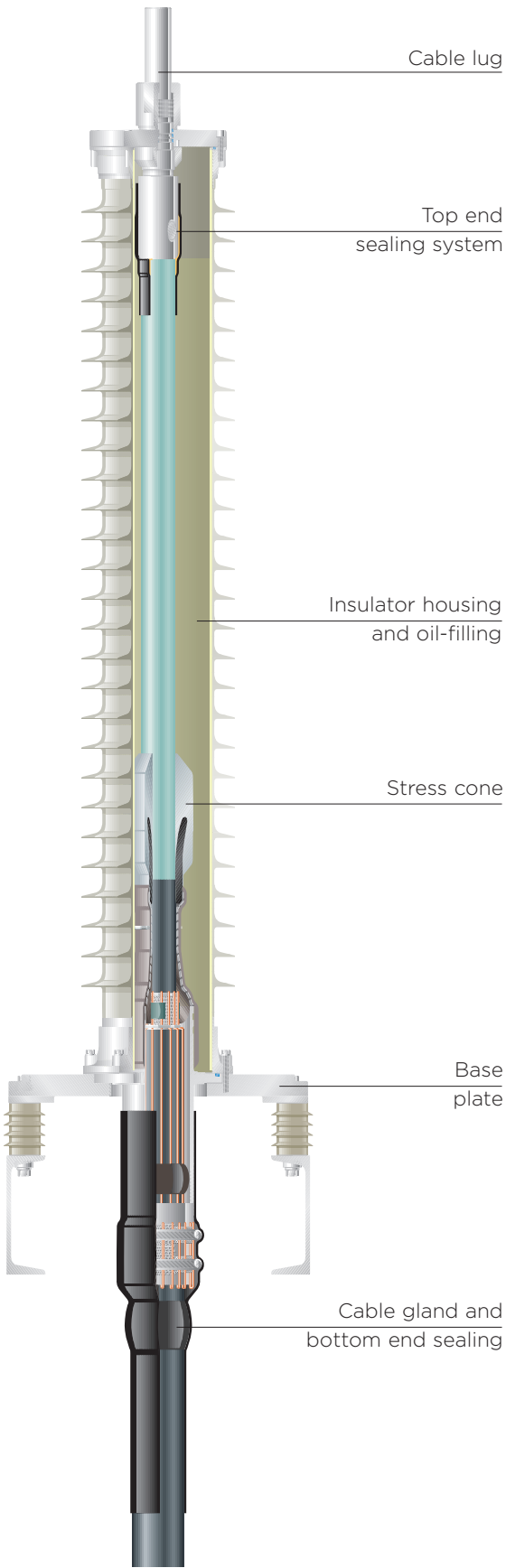
### Fibre optic kit

For special application with fibre optic wire equipped cables



### Arcing horn

To adjust the arcing distance



**Cable lug**

The cable lug is suitable for all common conductors made of aluminium or copper.

**Sealing system**

The flexible double sealing system is installer-friendly and ensures permanent protection against environmental influences of the top assembly. Heat-shrinkable polymeric tube containing oil-resistant sealant encapsulates the connector barrel and the polymeric insulation transition.

**Insulator housing and oil-filling**

The pressure-tight composite housing is made of a glass fibre reinforced (GFR) resin tube with silicone rubber sheds moulded to the tube. The interface between stress cone, cable insulation and inner housing will be filled from the top with silicone oil. No prior heating of silicone oil required.

**Stress cone**

The silicone rubber stress cone provides the electrical field control function and can easily be applied without tools. The application range is taken by different sizes of stress cones.

**Base plate and support insulators**

4 support insulators can be used on the base plate to mount the termination insulated. The termination can be mounted direct on the support structure as well. All metallic fittings are made of corrosion resistant Al alloy.

**Gland and seal**

The cable gland outer serving is adapted through different gland sizes, which can serve the individual shielding and armoring of the cable. The heat-shrinkable tube provides the outer protection and sealing for the cable gland area.



Technical data		72 kV	123 kV	145 kV	170 kV	245 kV
Rated voltage $U_0/U (U_m)$	kV	36/69(72.5)	64/115(123)	76/132(145)	87/161(170)	127/220(245)
Basic impulse level	kV	325	550	650	750	1050
Max. continuous operating temperature	°C	90	90	90	90	90
Max. conductor emergency temperature	°C	150	150	150	150	150
Conductor short circuit temperature	°C	250	250	250	250	250
Short circuit current (sheath)	kA / 1sec	40	40	40	40	40
Creepage (Pollution class IEC 60815)		a - e	a - e	a - e	a - e	a - e
Withstand voltage support insulators (AC/DC)	kV	10/20	10/20	10/20	10/20	10/20

**Application Range**

Conductor	mm <sup>2</sup>	2500	2500	2500	2500	2500
Diameter over Insulation (Composite) (Porcelain)	mm	34 - 97	34 - 97	34 - 97	34 - 108	71 - 119
	mm	34 - 74	34 - 74	34 - 74	--	71 - 119
Diameter over sheath	mm	110	110	110	119	160

All listed dimensions are standard size to serve the common application of these terminations. For special applications and bigger cable sizes please contact your TE Connectivity representative.

**Tools**

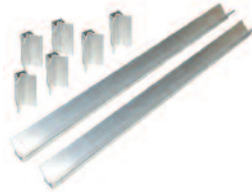
Tools required for cable preparation can also be purchased or rented at TE Energy. (See brochure EPP-0756 and EPP-1543)



Cable stripper



Gas torch



Straightening slide rails



Tool box



Heating blanket

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