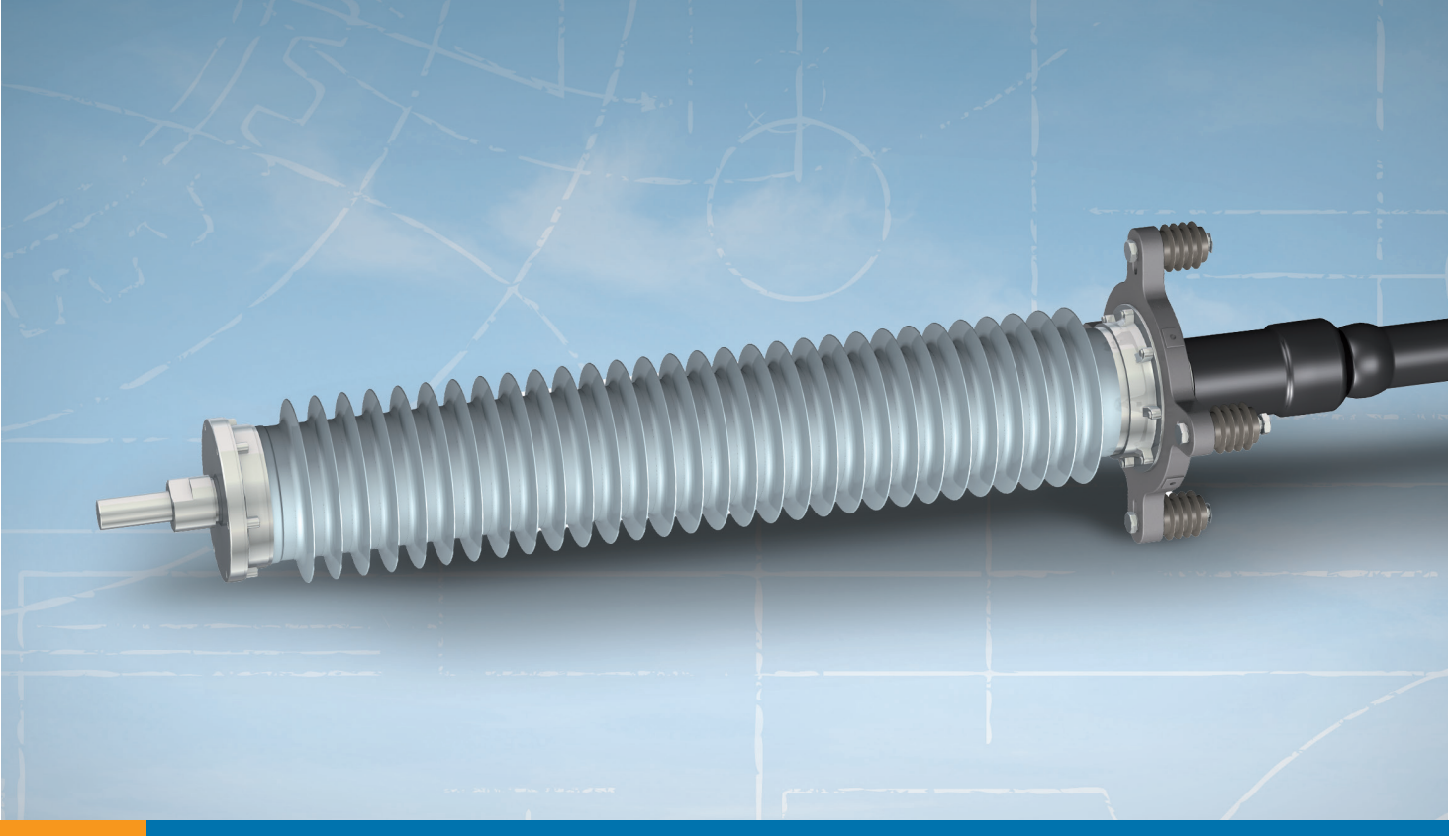


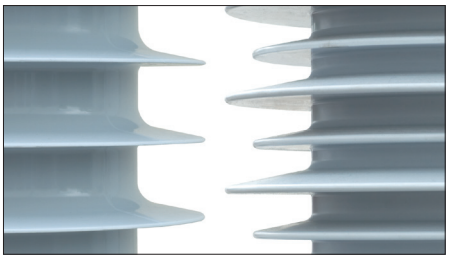
OIL-FILLED TERMINATION
UP TO 245 kV

TE Connectivity's (TE) OHVT high voltage outdoor termination system is designed for voltage up to 230 kV and to operate under severe environmental conditions. Polymeric insulated cables of various designs can be adapted 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 installers equipped with conventional tools.

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

MODEL VARIATIONS

Creepage
Variations according to individual requirements, pollution class, normal sheds, alternating sheds

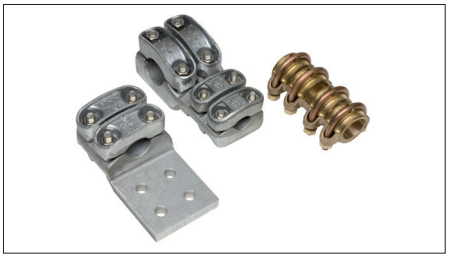


Cable lug
Different types of cable lugs available: mechanical with defined torque, crimp octant or hexagonal

Insulator
Variations of insulator materials, composite and porcelain

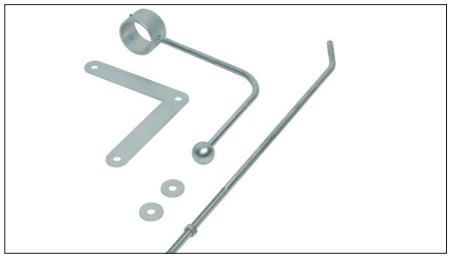
MODEL VARIATIONS

Adapter
Variations to customize the termination contact bolt



Fiber optic kit
For special application with fiber optic wire equipped cables

Arcing horn
To adjust the arcing distance



TECHNICAL DATA					
Rated Voltage (IEEE)	kV	69 kV	138 kV	161 kV	230 kV
Rated voltage U_0/U (U_m) (IEC)	kV	36/69 (72.5)	76/132 (145)	87/161 (170)	127/220 (245)
Basic impulse level	kV	325	650	750	1050
Max. continuous operating temperature	°C	90	90	90	90
Max. conductor emergency temperature	°C	150	150	150	150
Conductor short circuit temperature	°C	250	250	250	250
Short circuit current (sheath)	kA / 1sec	40	40	40	40
Creepage (Pollution class IEC 60815)		a – e	a – e	a – e	a – e
Withstand voltage support insulators (AC/DC)	kV	10/20	10/20	10/20	10/20

APPLICATION RANGE					
Conductor	kcmil	3750	3000	4000	4500
Diameter over Insulation:					
Composite	inch (mm)	1.34-3.82 (34-97)	1.34-3.82 (34-97)	1.34-4.25 (34-108)	2.80-4.69 (71-119)
Porcelain	inch (mm)	1.34-2.91 (34-74)	1.34-2.91 (34-74)	—	2.80-4.69 (71-119)
Diameter over sheath	inch (mm)	4.33 (110)	4.33 (110)	4.69 (119)	6.30 (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.

CABLE LUG

The cable lug is suitable for all common condutors 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 fiber reinforced (GFR) resin tube with silicone rubber sheds molded 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

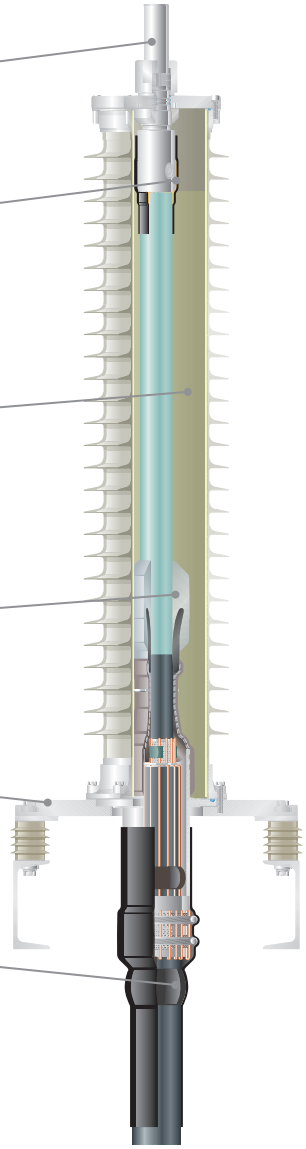
The silicone rubber stress cone provides the electrical field control function and can easily be applied without tools. The application range is taken by different sizes of stress cones.

BASE PLATE AND SUPPORT INSULATORS

Support insulators can be used on the base plate to mount termination, or it can be mounted directly on the support structure. All metallic fittings are made of corrosion resistant aluminum 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.



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

FOR MORE INFORMATION:
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