

## Compact Dry Outdoor Termination from 72kV up to 145kV OHVT

The termination and its components are designed to operate under severe environmental conditions.

The creepage length is adjusted to the appropriate pollution levels of IEC 60071-1 1996, IEC 60071-2 1996 and IEEE-1313.1- 1996.

The comprehensive design can cover polymeric insulated cable systems up to a cross section of 1200 mm<sup>2</sup>. The termination is a complete dry design and is free from any insulation liquid.

### Features:

- Operates under severe conditions
- The stand alone insulator is self supporting
- Creepage length is adjustable
- Using torque controlled multi-contact conductor bolts
- Prefabricated and tested Silicon-rubber cone
- Short cable cut-back dimensions ~ 400 mm
- Fast and simple installation combining GIS plug-in technology with composite Silicon-rubber shed insulator
- No special devices, no special tools are required
- No insulating-oil filling
- Combine novel ZnO varistor technology allowing slim dimension by superior BIL performance
- Type tested according to IEC 60840 standard



**Compact Dry Outdoor Termination from 72kV up to 145kV**

Max. Voltage	kV	72	123	145
Base Impulse Level	kV	350	550	650
Cantilever Force	N	5000	5000	5000
Arcing Distance	mm	830	1450	1450
Specific Creepage Length	cm/kV	2.2	2.2	1.9
Weight complete	kg	35	60	60
Conductor Size	mm <sup>2</sup> (Cu & Al)	≤1200	≤1200	≤1200
Max. outer diameter of the insulation	mm	≤100	≤100	≤100

**Major Design Elements**

An epoxy-resin insulator with embedded multi-contact electrode forms the electrically sound interface between the plug-in cable termination.

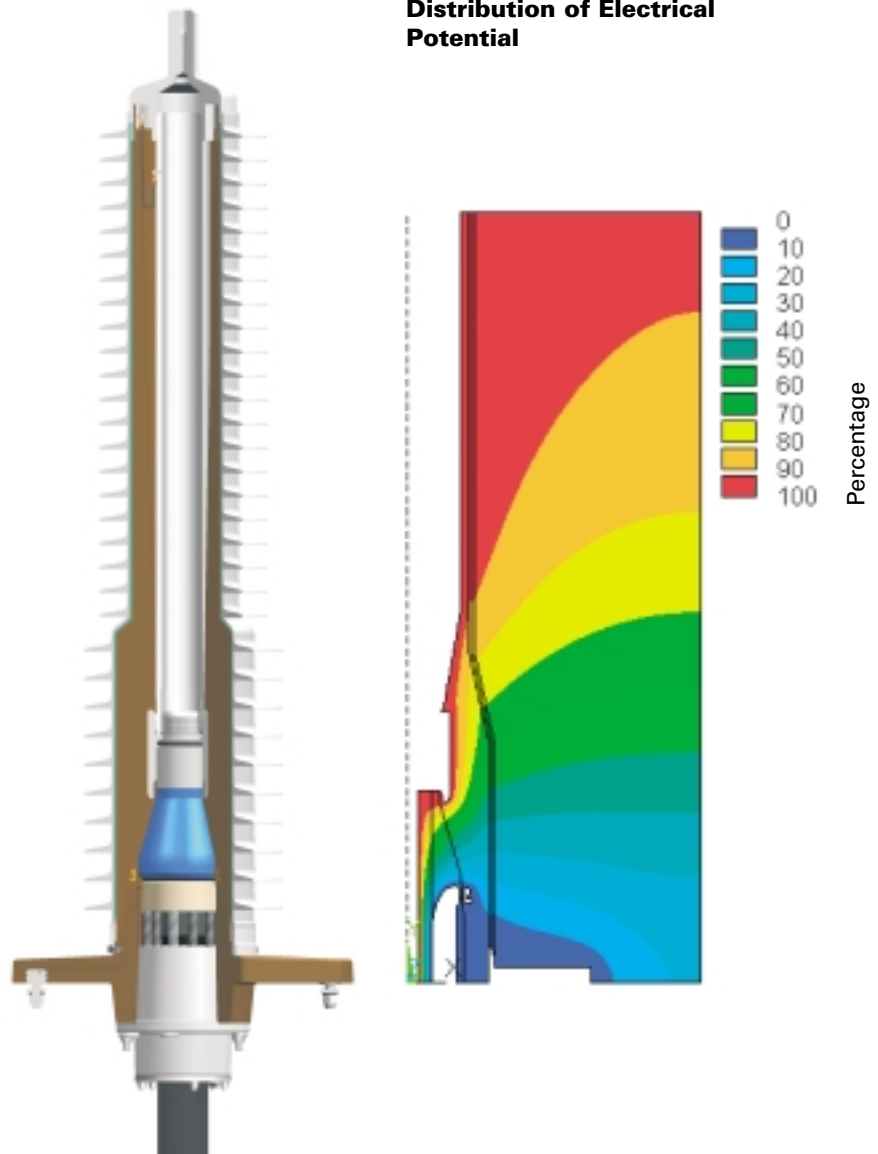
Cable outer serving is adapted through the gland system, which addresses the individual shielding and armoring and mechanical cable oversheath fixture including sealant by prefabricated spring loaded devices.

A torque controlled shear-off bolt multi contact connector fits the cable conductor, thus ensuring a seal to the top assembly, without the need for special installation tools.

Silicon-rubber stress cone provides the electrical field control and can easily be applied by hand owing to its excellent elasticity.

A metal spring-loaded compression ring presses the rubber cone into the resin housing, ensuring an electrically sound interface.

**Distribution of Electrical Potential**



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