

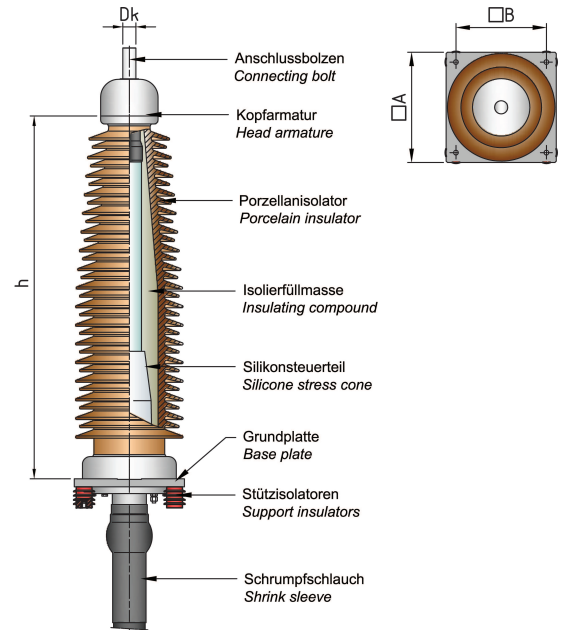
# Outdoor terminations type TE

## Fluid filled with porcelain insulator For polymeric cables up to 550 kV

Brugg offers a complete range of solutions for voltage systems up to 550 kV and cross-sections up to 2500 mm<sup>2</sup>. Based on the outstanding properties of the prefabricated and electrically tested one-piece slip on stress cones, the reliable modular construction of the TE termination allow its application to all types of polymeric insulated cables independently of the cable manufacturer. The porcelain insulator offers excellent mechanical resistance towards birds and rodent attacks. The insulator creepage distances are conceived for pollution severity class E according to IEC 60815-1. In addition all insulators design were conceived according to IEC 60815-2 regulations. All terminations are type tested according to the international standards IEC 60840 as well as IEC 62067 and fulfill also the requirements of American standards IEEE 48.

### Product main features

- Outstanding UV, tracking and erosion resistance
- Resistant to birds and rodent attacks
- For all types of polymeric insulated cables
- Configurable base plate and bolt dimensions
- Factory tested silicone rubber stress cone
- Self supported type
- Cold pouring silicone oil
- Screen cable connection without plumbing



### Dimensions

Type	h mm	Creepage distance mm	A / B mm	DK mm
TE 1.72-11	950	2900	320 / 270, 420 / 345	30 / 35 / 38 / 50
TE 1.145-11	1553	4700	420 / 345	30 / 35 / 38 / 50
TE 1.145-12	1700	5950	420 / 345	30 / 35 / 38 / 50
TE 1.145-13	2060	7290	420 / 345	30 / 35 / 38 / 50
TE 1.170-11	1700	5950	420 / 345	30 / 35 / 38 / 50
TE 1.170-12	2060	7290	420 / 345	30 / 35 / 38 / 50
TE 1.245-11	2710	8800	620 / 560	30 / 35 / 38 / 50
TE 1.245-12	3040	10000	620 / 560	30 / 35 / 38 / 50
TE 1.245-13	4270	13020	620 / 560	30 / 35 / 38 / 50
TE 1.300-01	2710	8800	620 / 560	50 / 60
TE 1.420-01	4270	13020	620 / 560	50 / 60
TE 1.420-02	5485	17500	620 / 560	50 / 60
TE 1.420-03	6465	21000	620 / 560	50 / 60
TE 1.550-01	5485	17500	620 / 560	50 / 60

## Fluid filled Outdoor Terminations

### Technical data

Type	Drawing	Max. operating voltage Um kV	Range of diameter over prepared cable insulation, min. - max. mm	Equivalent cable cross-section (Cu/Al) <sup>1</sup> mm <sup>2</sup>	Max. cable dia- meter mm	Creepage dis- tance mm
TE 1.72-11	S1918-4	72.5	35 - 114	240 - 2000	150	2900
TE 1.145-11	S1919-4	145.0	45 - 115	240 - 2500	150	4700
TE 1.145-12	S1920-4	145.0	45 - 115	240 - 2500	150	5950
TE 1.145-13	S1921-4	145.0	45 - 115	240 - 2500	150	7290
TE 1.170-11	S1922-4	170.0	57 - 115	400 - 2500	150	5950
TE 1.170-12	S1927-4	170.0	57 - 115	400 - 2500	150	7290
TE 1.245-11	S1947-4	245.0	58 - 115	240 - 2500	150	8800
TE 1.245-12	S1948-4	245.0	58 - 115	240 - 2500	150	10000
TE 1.245-13	S1949-4	245.0	58 - 115	240 - 2500	150	13020
TE 1.300-01	S1447-4	300.0	76 - 115	240 - 2500	150	8800
TE 1.420-01	S1296-4	420.0	76 - 129	400 - 2500	150	13020
TE 1.420-02	S1718-4	420.0	76 - 129	400 - 2500	150	17500
TE 1.420-03	S1624-4	420.0	76 - 129	400 - 2500	150	21000
TE 1.550-01	S1674-4	550.0	90 - 129	400 - 2500	170	17500

<sup>1</sup> Values for reference only. The exact application depend on the diameter over the prepared cable insulation.

Note: for installations > 45° oil expansion tanks type ET-2 or ET-12 are required.