

# TBS- 630A

EN 50180 transformer bushing

## FEATURES

Bushing for outdoor applications in oil insulated transformers.

This bushing has an epoxy resin core that ensures good mechanical performances and excellent insulation level. The external coating consists of liquid silicone rubber co-moulded on the core that guarantees excellent resistance to degradation caused by atmospheric agents (sandstorms, UV radiations, saline environment, industrial pollution...).

The insulator is provided with an aluminium flange for fixing to no°6 M10 studs of the transformer carpentry.

The electric field inside the insulator is controlled by a metal shield. This shield must normally be connected to earth by means of the cable pre-mounted on the insulator, but it can be used to pick up a voltage presence signal, using a special kit supplied separately only on request.

Every bushing is supplied with:

- ✓ Nickel-plated brass nuts and washers for air side connection (M20)
- ✓ Nuts and washers in brass for the oil side connection (M20)
- ✓ Cork rubber seal
- ✓ Screen grounding set
- ✓ Nickel-plated brass cap, prepared for anchoring spark-gap horns
- ✓ Nuts and washers (flat and split) in stainless steel for fixing to the transformer studs (M10)

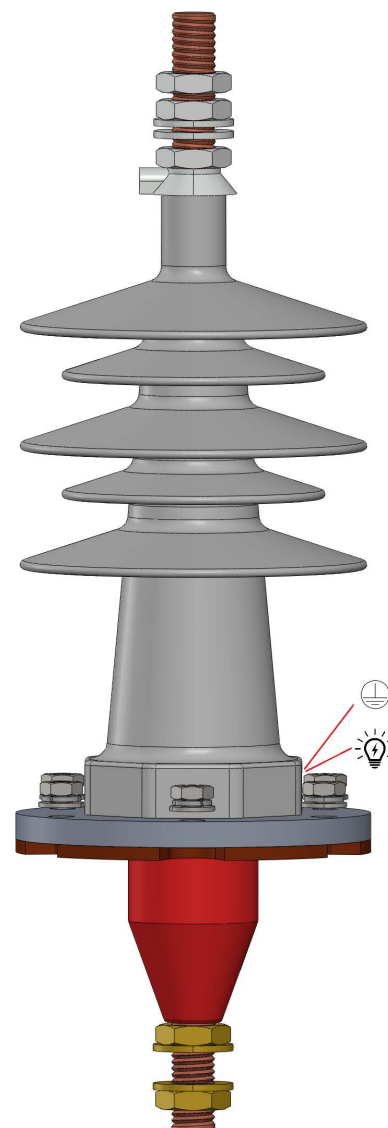
**REFERENCE STANDARDS** EN 50180, IEC 60815, IEC 60137

## ROUTINE TESTS

- Visual and dimensional check
- Glass transition temperature
- Dry power frequency withstand voltage test
- Partial discharges

## TESTS ON DEMAND

- Dry lightning impulse withstand voltage test
- Bending stress test
- Temperature rise test



## MAINTENANCE FREE !

- ✓ good impact and shock resistance
- ✓ easy and quick assembly
- ✓ 100% guaranteed partial discharges
- ✓ **NO OIL IN THE BUSHING BODY** = reduced possibility of loss and consequent fire
- ✓ low need of periodic cleaning

EN 50180 type	Creepage distance (mm)	Drawing	Code	Max. operating voltage	Lightning impulse voltage withstand	Power frequency voltage withstand	Nominal current
12-630/P4	710	95334	95130	12kV	75kV	30kV	630A
24-630/P2	710	95334	95334	24kV	125kV	55kV	
24-630/VI	920	95333	95333				
24-630/P4	1175	95332	95332	36kV	170kV	77kV	
36-630/VI	920	95333	95431				
36-630/P2	1175	95332	95432				
36-630/P4	1320	95434	95434				