



IXOSIL EST

Dry type termination for use on high-voltage transmission towers

The new oil-free and gas-free termination for high voltage cables is environmentally friendly and reduces installation times. It is available for voltage levels ranging from 72.5 kV to 170 kV and conductor cross-sections up to 2500 mm².

The dry, slide-on termination **IXOSIL EST** is not only easy to install, it is even cost effective. Since it does not feature liquid or gaseous insulating material, it is explosion-resistant in the event of a fault and leak-proof over the whole lifetime.

IXOSIL EST replaces oil- or gas-filled outdoor terminations on high-voltage transmission towers. The mounting frame on overhead line towers is now no longer needed since the termination can be installed on the high voltage cable on the ground and then lifted, together with the cables, onto the tower at a height of up to 20 meters. This leads to very short turn-off periods of the overhead lines.

For use in substations we offer **IXOSIL EST SUB** and **IXOSIL ESF**.

The Data – The Details

Description		EST72,5	EST123	EST145	EST170
Max. operating voltage	U_m [kV]	72.5	123	145	170
Standards		IEC 60840 IEC 60815	IEC 60840 IEC 60815	IEC 60840 IEC 60815	IEC 60840 IEC 60815
Rated voltage	U [kV]	60 - 69	110 - 115	132 - 138	150 - 161
Rated lightning impulse withstand voltage (BIL)	[kV]	325	550	650	750
Partial discharge measurement	[pC]	< 5	< 5	< 5	< 5
Conductor cross-section area	[mm ²]	95 - 1200	150 - 2500	240 - 2500	240 - 2000
Diameter across cable insulation (prepared)	[mm]	32.5 - 64.4	46.0 - 115.0	46.0 - 115.5	52.0 - 115.0
Net weight approx.	[kg]	58 - 63	100 - 120	120 - 130	150 - 160
Min. creepage distance	[mm]	1813 - 2248	3075 - 3813	3625 - 4495	4250 - 5270
Pollution class		3 - 4	3 - 4	3 - 4	3 - 4
Pollution class	[mm/kV]	25 - 31	25 - 31	25 - 31	25 - 31

The Advantages

- Oil- and gas-free
- Leak-proof
- Explosion-resistant in the event of a fault
- Compensation of heat expansion in connected conductors
- Compensation of cantilever forces
- Enables installation on the ground, no mounting frames required at the tower
- Time savings of up to 50% during cable preparation thanks to new technology
- 100% electrically routine-tested



EST 72.5 - 170 kV