



Solid-insulated terminations ESF / EST

Dry-Type Cable Terminations for Reliable Networks

Dry-insulated terminations ESF / EST

Three Solutions for One Application

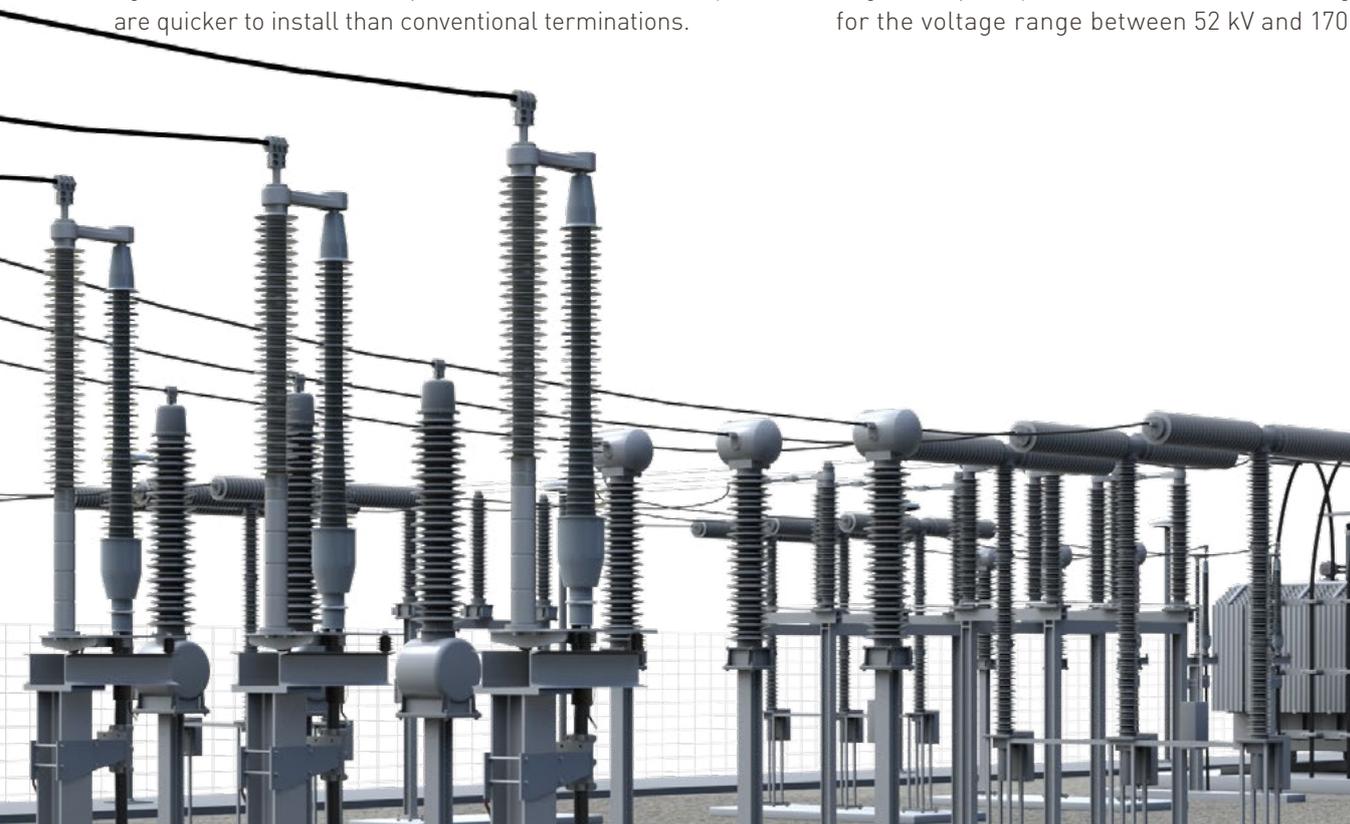
For many years dry-type outdoor cable terminations have been used worldwide in substations and on high-voltage transmission towers. Reliable in long-term use, they connect cable systems with overhead lines and busbars. The range covers voltage levels from 52 kV to 170 kV and includes three product versions: a supported cable termination with or without integral surge arrester, and a flexible cable termination. This enables a cost-effective solution of exactly the right size to be realized for every requirement and environmental situation.

PFISTERER terminations are based on standard products that have been established on the market for many years, using tried-and-tested materials and field-proven technologies. Thanks to their light, compact design, the dry-insulated terminations are easy to install, requiring very little space.

Dry-type outdoor cable terminations are the technology for the future – geared toward stable networks and a secure power supply. All products are insulated exclusively with solid silicone. This has several advantages: The dry-type range terminations contain no liquid, they are lighter and easier to transport and, what is more, they are quicker to install than conventional terminations.

ESF – Flexible Cable Termination

The flexible ESF can be integrated in existing fixing points and is particularly suitable for flexible quick-insulation multiple-use applications in testing or temporary site cables. ESF was designed for the voltage range between 52 kV and 170 kV.





The ESF / EST line includes

ESF 52-170 kV. The flexible.

EST SUB 72-170 kV for substations.

EST 72-170 kV for towers.

EST SUB SA 123-170 kV with integrated surge arrester

EST SUB SA – Cable Terminations with Integrated Surge Arresters

The supported EST SUB with integrated surge arrester combines the benefits of dry-insulated terminations with an integrated dry and gas-free surge arrester. EST SUB with integral surge arrester is available as EST SUB SA for solid earthed grids and for coil earthed grids in the voltage range from 123 kV to 170 kV and for a conductor cross section of up to 2,500 mm². The EST SUB SA can be installed quickly and cost effectively. As the components are independent of one another, the termination can be slid onto the cable very precisely on the ground and then attached in a vertical orientation to the already installed surge arrester. The arrester serves as a fixing point for the termination which means that additional supporting elements are not necessary. The termination and surge arrester are fully compliant with IEC 60840 and IEC 60099. An optional surge counter kit is also available for the surge arrester.

EST SUB – Supported Cable Termination

The dry-type EST SUB is the safe, cost-effective solution for substations and is designed for voltage levels ranging from 72 kV to 170 kV and conductor cross-sections up to 2,500 mm². The self-supporting termination features the outstanding properties of the system. The supporting elements can be installed separately onto the substation steel structure while the termination can be fitted on the ground and then, at a later stage, mounted up to a maximum of 6 metres high onto the supporting structure.

The EST design is also available for high-voltage transmission towers.

Benefits

- Quick and easy to install
- Oil and gas free
- Leakproof
- Proven technology
- Routine tested from factory

PFISTERER Switzerland AG

Erlstrasse 3
6403 Küssnacht
Switzerland
Phone: +41 41 499 72 72
connect@pfisterer.com
www.pfisterer.com

In 1921, Karl Pfisterer founded his factory in Stuttgart for special electrical products with the aim of improving the world of power transmission. The PFISTERER Group has pursued this goal of quality and technological leadership for more than 100 years. Today, PFISTERER is one of the world's leading specialists and system suppliers for energy infrastructure – with a complete range of cable accessories, overhead line technology and components along the entire transmission chain from power generation to consumption. With state-of-the-art manufacturing processes and 1,200 employees at 19 international locations, PFISTERER not only connects the power grids of today and tomorrow, but also makes an important contribution to a sustainable and secure energy supply.