

More Reliable Power Networks with the New Ixosil Cable Terminations

Ixosil EST SUB with surge arrester is the new addition to the range of dry outdoor cable terminations for substations and high-voltage transmission towers. The new solution covers voltage levels ranging from 123 kV to 170 kV and combines, for the very first time, a dry-insulated Ixosil cable termination with a surge arrester in one single unit. This increases the reliability of cable systems deployed in high-voltage applications while reducing the time and costs for installation.

Outdoor cable terminations have to fulfill very exacting requirements. The units, which are exposed to harsh wind and weather conditions, must connect cable ends reliably to overhead power lines and busbars for at least 40 years to such an extent that any high voltages and electrical fields that occur do not get out of control. On top of this, electrical transmission and distribution networks have to be protected against overvoltages caused by lightning strikes, mains fluctuations, and switching operations. Sources of error in the individual components must also be minimized to ensure a high level of network availability. Combined with the properties typical of dry-insulated cable terminations, Ixosil EST SUB with surge arrester performs these tasks perfectly. The EST SUB with integrated solid-insulated surge arrester is available in two variants: the EST SUB SA for solidly grounded systems and the EST SUB SAC for compensated systems.

Dry insulation minimizes risks

In contrast to oil and gas-filled outdoor cable terminations, the insulation in dry-type terminations comprises just a solid material, namely silicone. This means that all dry Ixosil products do not pollute the environment or compromise operating safety through leakages. In addition, dry-type terminations are lighter compared to conventional terminations. This also makes it easier to handle them when they are being transported and installed.

Precision, straightforward installation

The combined Ixosil EST SUB SA/SAC product allows the surge arrester and termination to be installed separately. The cable termination can first be fitted precisely on the ground and then attached in the vertical position to the surge arrester that has already been installed. The arrester serves as a fixing point for the termination which means that additional supporting elements are not necessary.

Long track record

Ixosil EST SUB SA/SAC is based on standard products with tried-and-tested materials and field-proven technologies that have been firmly established on the market for many decades. The termination and surge arrester are fully compliant with IEC 60840 and IEC 60099.



The outdoor cable termination Ixosil EST SUB with integrated surge arrester, which is fast and cost-effective to install, increases the reliability of power networks.

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About PFISTERER

PFISTERER is a leading independent manufacturer of cable and overhead line accessories for sensitive interfaces in energy networks. The Group is headquartered in Winterbach, near Stuttgart in southern Germany. PFISTERER develops, produces, and sells internationally successful solutions for 110 V to 850 kV voltage levels. With its end-to-end range of products for application in energy networks, consulting, installation, and training, the manufacturer is a valued partner to companies specializing in power supply, plant construction, and electrified rail transport around the world. PFISTERER operates production plants in Europe, South America, and South Africa, as well as sales offices in 18 countries across Europe, Asia, Africa, South America, and the USA. The Group employs around 2,700 employees following the recent acquisition of LAPP Insulators Holding.