High Voltage Cable Accessories

69 kV – 550 kV
High Voltage and Extra High Voltage Cable Accessories
69 kV to 550 kV

The Nexans High Voltage Business Group, with its centre of excellence for High Voltage Power Cable Accessories in Switzerland, maintains a team of R&D specialists for the Nexans Cable Accessories product line.

Nexans’ extensive research and development activities bring to life the most innovative and leading-edge products, year in and year out. With superior quality, durability, environmental compatibility and user friendliness, Nexans sets new benchmarks in the area of High Voltage Power Cable Accessories.

Outdoor Sealing Ends with Composite Insulator for Cables up to 550 kV

Composite insulators are an excellent alternative to porcelain. Nexans offers outdoor sealing ends with lightweight, explosion-proof, composite-type insulators which consist of a fiberglass reinforced epoxy tube with two aluminum flanges, covered by silicone sheds. The sheds, made of silicone rubber, are resistant to aging and have low risk of damage. The sealing ends include a pre-molded slip-on stress cone. The largest of the models built by Nexans reaches a height of almost 20 feet.

Outdoor Sealing Ends with Porcelain Insulator for Cables up to 550 kV

The concept of the sealing end with a porcelain insulator has an extensive history with paper insulated cables that exceeds 80 years. This type of sealing end includes a pre-molded slip-on stress cone.

Dry Type Outdoor Sealing Ends for Cables up to 170 kV

Dry-type, slip-on outdoor sealing ends (terminations which do not require an inner oil or gas filling) are characterized by their environmental compatibility and the fact that they are easy to install. The electrically factory tested monobloc sealing end body, made of silicone rubber, is held in place by the high voltage cable or is supplied with a support insulator.

GIS (Gas Insulated Switchgear) Sealing Ends/Transformer Sealing Ends for Cables up to 550 kV

Models utilizing either the traditional fluid-type technology or modern, dry versions are available. The GIS sealing ends are designed in accordance with the IEC 62271-209 standard, either according to item 7.1 for fluid filled terminations or item 7.2 for dry-type terminations. Dry-type transformer sealing ends designed in line with EN 50299 are available for voltages up to 245 kV.
**Joints - Pre-Molded Joint Body for Cables up to 550 kV**

Cable joints are available for various applications based on the design of the cable circuit and the method of connection of the metallic cable sheath:

- Straight joints
- Straight joints with earth bonding
- Insulated / Cross-bonding joints

Nexans high voltage joints, designed for synthetic insulated (XLPE) cables with aluminum or copper conductors up to 2,500 mm² (approx. 5,000 kcmil), are composed of a pre-molded elastomeric joint body and an outer casing.

Step-up/step-down joints are available for the connection of two cables with different conductor cross sections and diameters.

Equipment for PD measurement and DTS, as well as for the connection of optical fibres integrated into the HV power cable, can be supplied upon request.

**Various Accessories and Tools**

The Nexans product range includes various special installation tools, cable screen disconnecting systems, surge arresters, cable clamps and many other essential components and aids.

**Installation & Training**

Throughout the world, several hundred Nexans cable installation technicians insure professional cable laying and assembly of power cable accessories.

With its International Training Centre for power cable systems, Nexans is exploring new directions and setting benchmarks in the field of basic and continued training for its installation staff.