

# HV-CONNEX Size 7-S: the First Dry-Pluggable Bushing for Voltages up to 362 kV

**HV-CONNEX Size 7-S is the first dry-pluggable bushing for high voltage levels up to 362 kV. Power transformers equipped in this way are flexible in their use and easy to transport, enabling them to be used as emergency transformers. This means that damaged transformers can be replaced within a very short time. This product innovation encapsulates the extensive know-how of PFISTERER, the world's only manufacturer of pluggable bushings for the HV sector.**

Mobile power transformers must be compact so that, in the event of a power failure, they can easily be transported by truck to the required site. HV-CONNEX Size 7-S facilitates the construction of transformers with such a space-saving design. This is because the plug-in CONNEX bushing requires only one third of the length that a conventional bushing requires for discharging the field control inside the transformer. This enables the CONNEX device connection component, by means of which the bushing is plugged in, to be integrated in the cover of the transformer and constructed in a compact cubic form. In addition, the bushings can simply be removed and transported separately if required.

## Fast and secure

Mobile emergency transformers using the CONNEX connection system can be installed quickly and reliably. A transformer equipped with the CONNEX connection system is pre-tested at the factory, together with its bushings, so that it no longer has to be opened on site. This completely does away with the need for the oil or gas work normally required in conventional systems and reduces the time required for the initial installation by up to 75 percent. The replacement of a bushing is equally effortless. The bushing to be replaced is simply unplugged and a new one inserted – without the need for any oil processing.

## High current-carrying capacity

Specifically for the HV-CONNEX Size 7-S bushing, PFISTERER uses a new production method, in which the silicon is applied to a glass fibre reinforced plastic cylinder, rather than directly onto the RIP body. This gives additional protection to the insulation body inside the bushing. A further special feature of the Size 7-S compared to existing CONNEX bushings is the high current-carrying capacity that reaches a rated voltage of 2,000 Amperes. In addition, the bushing and device connection component can be used in mineral oil, synthetically manufactured and natural ester oil.



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**Certified safety**

The new bushing is suitable for power transformers and gas-insulated switchgear (GIS) up to 362 kV. It has been tested to IEC 60137 and also approved for the North American market. In the next phase, the pluggable bushing will be developed further for the 420 kV voltage level predominant in Europe. As the bushing is always backwards-compatible, it can already be used in all markets with voltage levels below 362 kV.

***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 1,100 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.