PFISTERER

# New: HV Cast Resin Joints Rated to 170 kV for Pluggable Cable Connections

**Pfisterer has expanded its line of gas-free joints with the dry, pluggable Connex size 6 cast resin joint. The new cable connection for voltages of up to 170 kV is quick and easy to install, which is why it is particularly well suited to offshore assembly operations on ocean platforms and is compatible with versatile emergency mobile transformers. Different cable cross sections and materials can also be combined. Pfisterer's new cast resin joints are currently being used in offshore projects in the North Sea and for newly developed emergency mobile transformers in the USA.**

Connection joints made from cast resin that are fitted with the pluggable Connex connection system from Pfisterer are solid insulated and facilitate easy handling at the place of installation, without requiring any gas or oil work. This, in turn, makes it possible to quickly and easily install the equipment. With the Connex cast resin joint in the new available size 6, convenient installation is also possible in the HV range up to 170 kV. The cable joint can even be temporarily installed in test centers or used as an interim solution during line construction. For permanent installations, the joint is preferably fitted where cables not only can be connected quickly and safely, but also in a space-saving manner. This is the case with converter stations for wind farms in the North Sea as well as with mobile power transformers.

## Predestined for Offshore

Space is tighter in converter stations out in the open water than in corresponding substations on land. This is why the compact construction of cast resin joints is a very significant factor when it comes to offshore platform installations. The solid insulated, touch-proof Connex joints allow cable systems to be implemented in much tighter areas than with $SF_6$ joints. Connex joints are also resistant to salt water and UV radiation, are submersible, require zero maintenance and are certified for offshore applications by the DNV GL classification body. An installed longitudinal water barrier prevents any water ingress that could be caused by a cable fault.

## Versatile Combinations

The size 6 Connex cast resin joint can connect cables of different diameters in a single joint. Various conductor materials such as aluminum and copper as well as rigid and flexible cables can also be connected. The connection joints likewise comply with international standard norm IEC 60840 for high-current cables. A voltage tap has been integrated as an additional component. Together with permanently installed voltage testers, this tap makes it possible to check voltage levels at a safe distance as well as facilitates additional testing opportunities.

The new Connex size 6 cast resin joint expands the line of gas-free joints from Pfisterer for voltages of up to 170 kV.

Connex connection joints made from cast resin are solid insulated and pluggable to facilitate easy handling and eliminate the need to carry out gas and oil work.

**Link/download**

> Image download

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With the new size 6, Pfisterer offers gas-free, dry and pluggable cast resin joints for voltage ranges from 36 to 170 kV. Tap-off joints (T-joints) are planned for the next development step so that multiple cables can be simultaneously connected.

Tested for offshore applications: At the WindEnergy fair Paul Bausch, Head of Sales Office North (Germany) of PFISTERER, received the official DNV GL certificate from Matthias-Klaus Schwarz (left), Head of Section Electrical Systems, and Tobias Bublat (right), Principal Engineer Electrical Systems, both from DNV GL – Energy.

***About Connex***

The dry Connex connection system, which was originally developed in 1975 for low and medium-voltage applications, currently covers the entire range of voltage supplies from 12 kV to 550 kV. Connex also represents the largest single product line on the market for voltage ranges up to 220 kV thanks to its wide array of cable fittings, solid-insulated surge arresters, plug-in bushings, sliding sleeves and voltage testing systems. Connex is compatible with all types of cable and can be used with indoor and outdoor transformers as well as with gas-insulated switchgear (GIS). Due to the plug-in design of Connex components, this power equipment is quickly installed, maintained and replaced as no gas or oil operations are required, and the standardized connection interface makes it possible to conveniently reassign transformers and GIS equipment to different applications to remain in operation for the long term, even when network infrastructures change. Last but not least, the Connex connection system is the only one of its kind to have been certified for offshore applications by the DNV GL classification society and can therefore also be incorporated on deep-sea platforms and in wind power stations.

***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.