

A heart for all conductors – new bolted connectors from PFISTERER with unique conductor channel

Winterbach, Germany – October 2024 – PFISTERER has reinvented the conductor channel for low voltage bolted connectors. The unique heart shape offers advantages when it comes to installation. It is suitable for all conductor shapes and types – including 120° sector. At the same time, the electrical and mechanical properties of the connectors have been significantly improved. The result is a new generation of bolted connectors that sets new standards.

With an innovative heart shaped conductor channel, the new low voltage bolted connectors up to 1 kV from PFISTERER solve several installation challenges at once: The special design is suitable for all kinds of conductor materials and types, including 120° sector conductors. It is often difficult to achieve a secure bolted connection with these conductors in connectors with round conductor channel, and they have to be laboriously crimped round prior to installation. The large heart shaped conductor channel from PFISTERER solves this problem, as it is perfectly suited to all conductor shapes. The installation bolts end flush with the straight top edge of the conductor channel. This also makes it easier to insert crushed or protruding conductor ends and prevents the individual wires from catching or snagging. Even under difficult installation conditions, the connector fits well over the conductor and ensures reliable positioning of the conductor under the bolts. “With our new low voltage connectors, we have developed a practical and intelligent solution. Reliable and easy handling was our top priority,” explains Jens Keller, product manager at PFISTERER. “Along with that, we have implemented mechanical and electrical improvements.”

One for all

Besides the new conductor channel shape, numerous technical details from PFISTERER's tried-and-tested SICON connector series have been adapted for the new low voltage solution. For example, integrated conductor channel grooves in the connector penetrate the oxidation layer on aluminum cables, ensure linear contact, and simultaneously increase the conductor pull-out force. In addition, a two-stage shear bolt with hexagon head ensures minimal bolt protrusion and also prevents the bolt head getting stuck in the tool when it shears off. A rotating friction disc at the end of the bolt avoids damaging individual wires during installation and ensures optimum contact forces over the entire service life of the connection, regardless of the conductor material. Alternatively, the connectors are also available with grub screws that can be undone.

With inspection hole, oil stop, shear bolt or grub screw

The new low voltage connectors with heart shaped conductor channel are available in six sizes from 10 to 35 mm diameter and four variants – optionally with a large inspection hole or oil stop, as well as shear bolts or grub screws. The inspection hole makes it easier to position the conductor ends in the connector, and also enables preassembly in a parking position for later completion of the

Contact for inquiries

Jens Keller
Product Manager LV Contact Systems
Phone: +49 7323 83 812
jens.keller@pfisterer.com

Gregor Vollbach
Head of Marketing and Corporate Communications
Phone: +49 7181 7005 487
gregor.vollbach@pfisterer.com

PFISTERER Holding SE
Rosenstrasse 44
73650 Winterbach
Germany
www.pfisterer.com

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The unique heart shape of the new LV bolted connector from PFISTERER offers many advantages during installation.

connection. The oil stop variant provides a liquid and gas barrier – for use of cables with oil-soaked insulation, for example – as well as a secure stop for the conductor ends.

All low voltage connectors of the new generation are suitable for heat-shrinkable joints in accordance with DIN SPEC 47640 and meet the corresponding bolt protrusion requirements. No rework is necessary to shrink over the connectors. In addition, the new low voltage connectors from PFISTERER are mechanically and electrically tested to IEC 61238-1-1 class A.

About PFISTERER

In 1921 Karl Pfisterer founded his factory for special electrical products in Stuttgart 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 and five factories, PFISTERER not only connects the power grids of today and tomorrow, but also makes an important contribution to a sustainable and secure energy infrastructure.