

For immediate publication

Multifunctional high-voltage cable clamp for battery cable routing on frame or bracket

High voltage clamp ideal for battery cables

Frankfurt am Main, January 2023, Panduit's new high-voltage (HV) cable clamps make it safer, faster and more flexible to install battery cables in electric vehicles. High voltage cable clamps are important components in vehicle electrical systems above 25 VAC or 60 VDC. These systems have to comply with a number of safety requirements relating to mechanics and installation guidelines. The safety of high voltage cables in vehicles depends on three factors: Electric shock, electromagnetic radiation and vibration.

Panduit's high-voltage cable clamps are specifically designed to efficiently manage and secure high-voltage battery cable installations and are part of the vehicle's high-voltage electrical system as well as the charging infrastructure, enabling cables to be connected safely and reliably. Made from glass-fibre reinforced high temperature nylon for use from -40°C to 135°C, the robust housings have compressible rubber inserts. This protects the delicate outer insulation of the cables from damage - a common problem with other fixing methods. The HV clamps are designed to be connected in pairs. Integrated anti-rotation points prevent rotation or displacement, protecting the cables from excessive strain. The clamps are adjustable up to 4.5mm, allowing them to be moved freely over the cable until they are positioned over the actual fixing point. In addition, Panduit's HV clamps provide a safe distance between cables, significantly reducing abrasion between adjacent cables and protecting connected quick disconnects from excessive stress. The HV clamps are available for cable diameters of 25 to 40 mm² (4 to 2 AWG), 50 to 70 mm² (1 to 2/0 AWG) and 85 to 120 mm² (3/0 to 4/0 AWG).



In series production of wire harnesses, the HV clamp fits seamlessly into the assembly process and remains securely attached to the wire harness assembly until final assembly. This ensures that all components, including the HV clamps, remain together during the various production stages of the harness and can then be easily secured in their final position. The new HV clamps reduce overall assembly time and improve serviceability, as their push-in locking mechanism makes them easy to release without the need for tools. For additional cable management, the HV clamp can also be combined with a wing clamp and an extra wide cable tie.

Panduit's new HV clamps are specifically designed for high voltage cable management in heavy electric vehicles. With proper installation and maintenance, HV clamps reduce vehicle breakdowns, increase cable life and improve overall harness productivity.

About Panduit

For more than 60 years, Panduit has been the world's leading provider of innovative solutions in the field of physical and electrical infrastructure for data centers, industrial and building automation and related services. Headquartered in Tinley Park, Illinois, USA, with offices in 112 locations worldwide, Panduit stands for quality and innovative technologies. The family-owned company with more than 5,500 qualified employees generates sales in the billion Euro range worldwide. Panduit owes its outstanding market position to the constant striving for innovation and the untiring commitment of its employees. The global player invests above average in research and development, in first-class production, in the best possible support of its sales channels and in excellent customer service. This, combined with a strong partner network, is the prerequisite for comprehensive support, sustainability and solid corporate growth in the networked world of today and tomorrow.

Contact:

Patrick-Steeven Skwara
Marketing Manager
Tel. +49 6196 78530 27
Patrick.Skwara@panduit.com

Martin Kandziora
Senior Marketing Manager EMEA
Tel. +49 6196 78530 46
Martin.Kandziora@panduit.com

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