



wieland

MARCH 2024

PRESS INFORMATION

COMPLETE SOLUTION FOR CHARGING INFRASTRUCTURE

Wieland Electric offers a universal electrical installation system for e-charging stations in parking garages and underground parking lots

The development of a nationwide charging infrastructure is key for the successful integration of electric vehicles into daily life. Charging networks, including charging facilities in underground and parking garages, need to be systematically expanded. Wieland Electric offers an integrated electrical installation solution with the decentralized podis® flat cable system, which has been enhanced with new features and functions to ensure safer, more flexible, and simpler energy supply for charging stations.

At the upcoming Light & Building 2024, Wieland Electric will be demonstrating the decentralized flat cable system connecting up to 20 charging stations with just one supply cable. This will be modeled to demonstrate time savings during installation, reduced materials required, and significantly reduced distribution cabinet dimensions. The foundation for additional charging stations is already created during the initial installation. Once the flat cable has been installed, only one more connection module needs to be added if required, saving a considerable amount of time compared to conventional installation methods.

Convenient integration of protective devices

For maximum safety in accordance with IEC 60364-7-722:2018, overcurrent and residual current devices for protecting charging stations can now be integrated into a podis® fuse module specially designed for electromobility. The module is used both as a connection

to the flat cable and to integrate the overcurrent and residual current device for the final circuit.

The standard variants include a 4-pole RCD type A C32 / 30 mA or a RCD type A C16 / 30 mA and can be used for 22 kW or 11 kW charging stations that have integrated DC residual current detection. Other variants with alternative in-line appliances are also possible. As per Wieland's standard practice, the pluggable outputs have different mechanical codings to prevent incorrect plugging and increase safety. In addition to plug-in versions, modules for conventional wiring with cable glands are also available.

Maximum flexibility and easy handling

Wieland Electric offers a double outlet module as part of its podis® flat cable system, allowing two consumers to operate with just one tap, effectively reducing the need for an extra outlet module. The RST25 variant is pre-wired at the factory with 2 x 6 mm² and only needs to be plugged into the appropriate RST cable after connection to the flat cable. Variants with a single input or integrated top-hat rail are also available for maximum flexibility. The latter enables, for example, the integration of overvoltage protection or access points.

The podis® system is also characterized by time savings and easy handling. Wieland Electric has a new fastening clamp, available in two versions: one with an integrated "HILTI" contour for attachment with a bolt gun, and the other with a slotted hole for classic screw fastening. As the lower and upper sections are connected to each other, assembly is also simplified. Locking with the quick-release fastener is also easy and requires no tools at all: simply press down the top part. The clearance between the flat cable and the substrate ensures maximum flexibility - an additional connection module

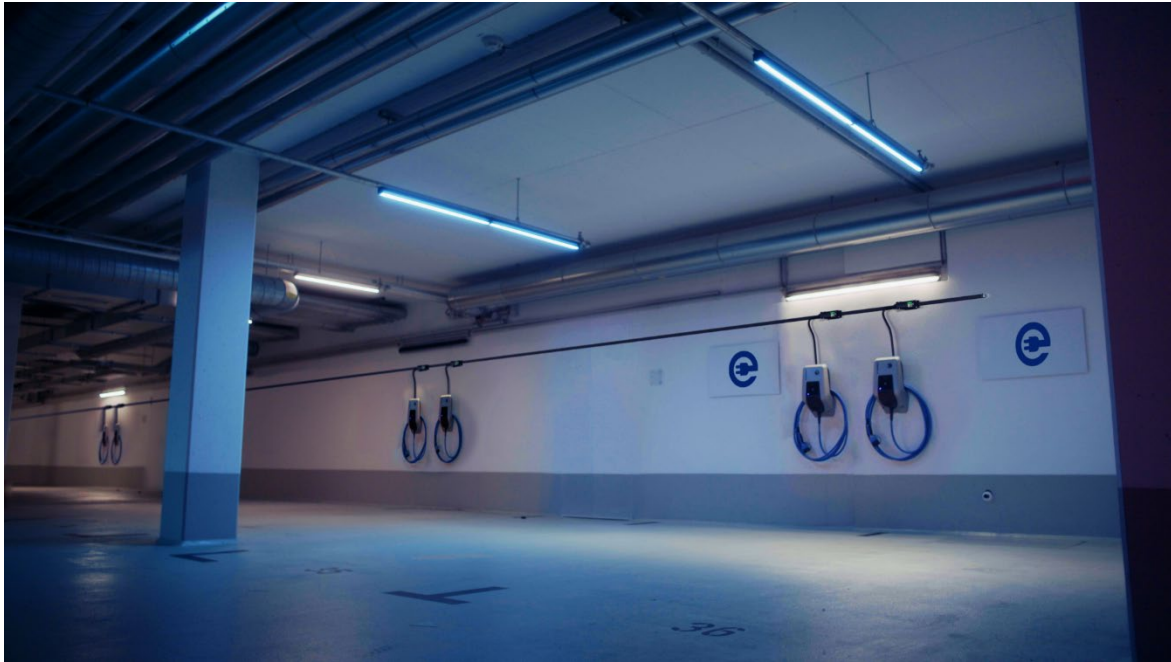


wieland

can simply be inserted here at a later date. In contrast to direct contact with the substrate, heat dissipation is also significantly improved.

"Whether parking garages or underground garages - with our podis® flat cable system, we not only enable user-friendly, quick and easy project planning in the field of e-charging infrastructure, but also considerable time savings during initial installation thanks to error-free and safe installation. The high level of flexibility and simple handling make the time savings even more noticeable with extensions. Thanks to protection class IP65 and international certification, our electrical installation solution can of course be used worldwide, even in harsh environmental conditions," explains Frank Nagengast, Product Information Manager at Wieland Electric.

IMAGEMATERIAL



This is how decentralized energy distribution works. One flat cable can serve up to 20 charging stations.



The electric charging infrastructure can be implemented with just a few basic components.



wieland

PRESSCONTACT

Magdalena Montagna

Content Marketing & Communication

Phone: +49 (951) 9324 - 316

E-mail: magdalena.montagna@wieland-electric.com

ABOUT WIELAND ELECTRIC

Wieland Electric, founded in Bamberg in 1910, is the inventor of safe electrical connection technology. Today, the family-owned company is one of the leading suppliers of safety and automation technology and has been the global market leader in the field of pluggable electrical installations for building technology for over 30 years.

Wieland Electric assists customers with on-site support all over the world as a capable service partner and solution provider. This is possible thanks to around 1,700 employees and subsidiaries as well as sales organizations in over 70 countries. In addition to Wieland Electric GmbH, STOCKO Contact GmbH & Co. KG has belonged to Wieland Holding since 1998.

The company's core industries include mechanical engineering, wind power, intralogistics and HVAC, as well as building and lighting technology. The broad portfolio includes components, products, and solutions for electrical installation, connection technology, power distribution, safety technology, and the control cabinet. In addition, Wieland Electric offers an extensive service and training program. With cross-industry experience, a great product diversity and numerous service offerings, the company has consistently developed from a component supplier to a solution provider in recent years.