

DC CHARGING CABLE

Power charging up to 500 kW

Phoenix Contact provides the Charx connect DC charging cables. A leakage sensor permanently monitors the interior of the charging connector for leaking coolant. The evaluation of this sensor data is enabled via the integrated CAN interface.



The charging connectors offer monitoring options where CAN plays a role (Source: Phoenix Contact)

The charging cables for high-power charging (HPC) are now available for the North American CCS type 1 charging standard. The liquid-cooled CCS charging cables reach permanent charging powers of up to 500 kW without compromising on handling and safety, explained the company. This means, the battery of electric vehicles can be recharged within just a few minutes. The optional panel feed-through, enables installing the charging cable on the charging station. The charging cable, comes with a rubberized handle area on the charging connector and a separately-available cable grip for handling. As an extension, a passive cooling unit is also available that pumps environmentally friendly water-glycol coolant through the charging cable and charging connector during the charging process, explained the company. The semi-open cooling circuit allows the coolant system to be refilled during maintenance work.

Furthermore, the HPC charging connectors provide numerous monitoring options for increased safety and transparency, as well as timely maintenance work, the company continued. The temperature measurement system comes with a total of five sensors, and the intensity of the cooling system can be controlled as required. The integrated positioning and shock sensor provides information on the current situation of the charging connector. A leakage sensor permanently monitors the interior of the charging connector for leaking coolant. The evaluation of this sensor data via the integrated CAN interface enables a predictive, wear-friendly maintenance program to be implemented, the company added. With the help of the separately available repair kits, the mating face and power contacts can be replaced during maintenance work without interrupting the cooling circuit, eliminating the need to replace the entire charging cable.

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