PRESS RELEASE

Rosenberger HVR®55: Compact High-Voltage Connector for Electric Mobility

Designed for operating voltages up to 1,200 V DC—optimized for automated wiring harness assembly and reduced system complexity

Fridolfing, October 27, 2026 – With the HVR®55, Rosenberger is expanding its portfolio of high-voltage connectors to include a compact solution for electric vehicle architectures. The shielded connector system is designed to minimize the number of components, require minimal installation space, and integrate seamlessly into automated wiring harness manufacturing processes. The optimized design of the connector and wiring harness reduces material usage, weight, and system costs.

Compact and powerful for demanding high-voltage applications

The HVR®55 is rated for operating voltages up to 1,200 V DC and achieves a current-carrying capacity of up to 60 A at an ambient temperature of 85 °C. The connectors are available for cable cross-sections of 4 mm² and 6 mm². The specified temperature range extends from −40 °C to +140 °C.

The product portfolio includes two- and four-pole versions for various installation scenarios and connection concepts. These include cable connectors for single-conductor cables, inline connections within a wiring harness, and headers with flanges for cables and busbars. Headers are available in straight and 90° angled configurations. A high-voltage interlock loop (HVIL) is available as an option.

Secure connections and efficient installation

A CPA (Connector Position Assurance) ensures that the connector is securely locked in place. The various designs for cables and busbars allow for adaptation to different connection concepts in high-voltage systems.

The HVR®55 is designed for use under typical automotive loads. The specified vibration resistance complies with USCAR V1 and LV 215 PG 17 SG 2; validation is performed in accordance with USCAR and LV 215. When mated, the connector system achieves an IP6K9K protection rating; when unmated, it achieves an IPXXB+ rating. The product family is RoHS-compliant.

Flexible integration into vehicle electrical architectures

The HVR®55 is suitable for various high-voltage connection points in the vehicle. These include the connection between a power distribution unit (PDU) and auxiliary consumers, the connection between the charging port and the on-board charger (OBC) for AC charging, and the connection between the on-board charger and the traction battery.

For more information, visit: https://www.rosenberger.com/product/hvr55/

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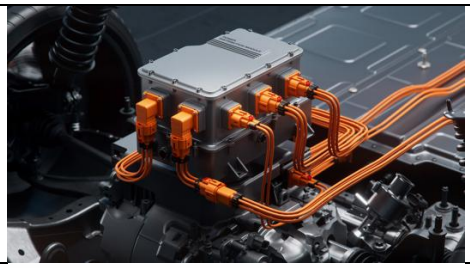
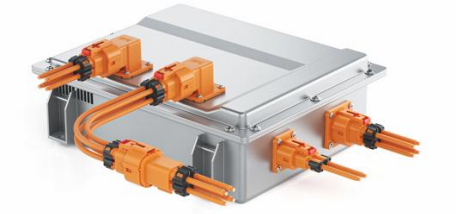
Images (free to use with credit: “Image: Rosenberger”):

	The HVR®55 reliably connects control units, chargers, and traction batteries in electric vehicle architectures.
	HVR®55 connector system on a power distribution unit (PDU): two- and four-pole versions for different connection configurations
	HVR®55 product family (4-pole): cable connectors, straight and angled headers

About Rosenberger

Rosenberger is a globally renowned manufacturer of electronic components and systems, recognized for cutting-edge technologies, engineering excellence, and uncompromising quality. Headquartered in Germany, the Rosenberger Group operates worldwide with numerous sales and production locations, offering a broad range of standardized and customized connectivity solutions in RF, high-voltage, and fiber optic technologies.

Rosenberger ensures reliable transmission of signals, data, and power in the most demanding application areas. Leading high-tech companies across sectors such as mobile communications and telecommunications, industrial measurement technology, automotive electronics, medical and industrial electronics, data centers, and aerospace rely on Rosenberger products for their precision and outstanding reliability. The CNC machining division manufactures precision parts for a variety of industries, including the automotive and commercial vehicle sectors, shipbuilding, and conventional mechanical and plant engineering.

Since its founding in 1958, Rosenberger has been family-owned and currently employs more than 15,500 people worldwide. The company’s employees are known for their dedication, innovative spirit, and commitment to quality, all firmly rooted in the values of a traditional family business.

For more information, please visit: www.rosenberger.com

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Media Contacts

Rosenberger Hochfrequenztechnik GmbH & Co. KG

Aldo Croci Torti
Marketing Services
Hauptstraße 1
83413 Fridolfing, Germany
Phone: +49 8684 18 1707
aldo.crocitorti@rosenberger.com
www.rosenberger.com

Profil PR oHG

Jan Lauer
Husarenstraße 74
38102 Braunschweig, Germany
Phone: +49 531 387 33 18
j.lauer@profil-pr.com
www.profil-pr.com