

PRESS RELEASE

Rosenberger Launches Next-Gen Connector HVR®25 – Precision Without Complexity

Smallest shielded high-voltage connector in its class for up to 40 A and 1000 V applications

Fridolfing, Germany, November 03, 2025 – Rosenberger has expanded its portfolio of high-voltage connectors with the launch of the new HVR®25 series. The HVR®25 is the smallest shielded high-voltage connector compared to latest class 2 connectors. It offers a current capacity of up to 40 A with a cable cross section of 4 mm². With its compact design, high reliability, and optimized cost-performance ratio, the HVR®25 is fully in line with Rosenberger's principle of "Precision Without Complexity."

As vehicle architectures evolve toward 800- and 1,000-volt system platforms, precise and efficient connector solutions have never been more important. The HVR®25 was specifically developed for low-current auxiliary systems that require efficiency, safety, and ease of integration. Typical applications include PTC heaters, inverters, and onboard chargers (OBCs).

Compact, smart, and efficient

Compared to current Class 2 connectors, the HVR®25 reduces space and weight by up to 50%, as well as significantly reducing the cost of both, the connector and the cable assembly. Its compact design simplifies packaging and strikes an optimal balance between performance, size, and cost efficiency.

Reliable and safe performance

The HVR®25 meets standards of vibration according to LV215-2 & SG3 and USCAR. It is RoHS compliant and features shielding and an integrated HVIL (high voltage interlock). The system achieves protection classes of up to IP6K9K when mated and IPXXB when unmated. Its operating temperature range of –40 °C to +125 °C ensures reliable performance under harsh environmental conditions.

Flexible product portfolio

The product family includes cable connectors and headers with a common interface for cable cross sections ranging from 1.5 mm² to 4 mm².

- **HVR®25 Cable Connector:** Stable and reliable performance, supports single-core cable assembly, and is compatible with automated manufacturing processes.
- **HVR®25 Header:** Offers flexible terminal connection options such as busbars or cable variants and allows high packing density and simplified installation with only two screws.

Designed for today's and tomorrow's system platforms

Rosenberger's HVR®25 is a solution that aligns with the technical requirements of modern 800 V and 1000 V architectures, reducing system complexity, weight, and cost. These features establish the HVR®25 as a new benchmark in high-voltage connector technology.

"The HVR®25 embodies our principle of 'Precision Without Complexity,' offering uncompromising performance in a compact design," says Günther Höfelmeier, Director of Product Management at Rosenberger.



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Technical Highlights

- **Rated voltage:** 1000 V DC
- **Current capacity** (at 85 °C):
 - 10 A @ 1.5 mm²
 - 25 A @ 2.5 mm²
 - 40 A @ 4 mm²
- **Protection:** IP6K9K / IPX7 / IPXXD (mated), IPXXB (unmated)
- **Temperature range:** -40 °C to +125 °C
- **Vibration:** LV215-2 & SG3
- **HVIL integrated**
- **Shielded design**
- **RoHS compliant**

For more information, please visit: www.rosenberger.com/en/product/hvr25

Images: (royalty-free use with credit "Image: Rosenberger"):

	<p>HVR®25 - Precision Without Complexity</p>
	<p>HVR®25 - Designed and built for integral auxiliary systems</p>
	<p>HVR®25 Cable connectors, cable assemblies and compact headers</p>

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HVR®25 - Designed for today's and tomorrow's system platforms

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 the 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 company's CNC machining division produces precision parts for various industries, including the automotive and commercial vehicle sectors, shipbuilding, and classic mechanical and plant engineering.

Since its founding in 1958, Rosenberger has been family-owned and currently employs around 15,000 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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