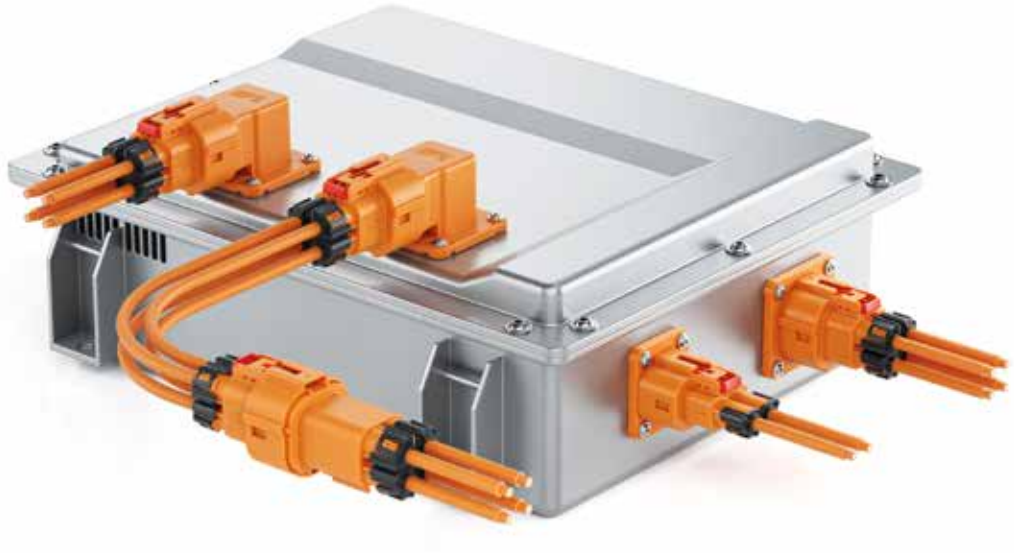
Rosenberger

Ready for the Future. Reduced Complexity. Maximum Efficiency.

HVR®55 – High-Voltage Connectors Optimized up to 60 Ampere

AUTOMOTIVE E-MOBILITY



HVR®55 | Reduced Complexity | Maximum Efficiency

HVR®55 - Shielded HV Connectors up to 60 Ampere

Designed for efficiency, the HVR®55 connector combines a compact, flexible design with safe and reliable high-voltage performance. It minimizes components, material use, weight, installation space, and system costs while enabling automated harness assembly and high-volume production. Built for demanding conditions and voltages up to 1200 V, it is a robust, future-ready solution for next-generation high-voltage applications.

- **Reduced Complexity**
  Minimum number of components reduces material usage and overall costs
- **Less Weight & Installation Space**
  Compact design supports lightweight and space-efficient vehicle architectures
- **Designed for Automation**
  Optimized for simplified integration, automated harness assembly and efficient high-volume production
- **Flexible Integration**
  Easy to integrate into a wide range of high-voltage applications
- **Safe & Reliable for Harsh Environments**
  Reliable, safe and robust design for challenging environmental conditions
- **Future-Ready up to 1200 V**
  Designed for next-generation high-voltage vehicle architectures

Technical Data

- Shielded
- Cable cross section 4 mm², 6 mm²
- Current capacity at 85 °C up to 60 A
- Working voltage 1200 V DC
- Optional with HVIL
- With CPA
- Copper cables
- Vibration according USCAR V1 & LV 215 PG 17 SG 2
- Validation according USCAR & LV 215
- IP class mated IP6K9K, unmated IPXXB+
- Temperature range -40 °C to +140 °C
- RoHS compliant

Applications

- PDU to Auxiliary Unit
- Charging Socket to OBC (AC)
- OBC to Battery

HVR®55 for all Kind of Applications and Installation Spaces

HVR®55 Cable Connectors female

2-pole and 4-pole variants

- Assembly of single core cables
- Different cross sections available
- High-performance and low-cost variants with either silver- or tin-plated terminals available

HVR®55 Cable Inline Connectors male

2-pole and 4-pole variants

- Flexibility in vehicle architecture, connection within cable harness
- Assembly of single core cables
- Different cross sections available

HVR®55 Headers

2-pole and 4-pole variants

- Straight and right angled variants
- Wide variety of connection options for all header applications, e.g. busbars, cable variants
- HVIL optional available
- Compact 4-hole flange

Status October 2026 – Technical modifications and errors excepted. Similar images.

Website

For more information refer to our website:
www.rosenberger.com/hvr55

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