

# eHV60 Connection System >

The eHV60 Connection System features a compact, rugged, sealed and fully shielded power connector that meets global standards for auxiliary high-voltage, medium-current electrified architectures in automotive and industrial applications.

## ADVANTAGES AND FEATURES

### Reduces size and weight for high-voltage, medium-current connections

The connector delivers up to 1,000V DC and 64.0A at +80°C (with 6.00mm<sup>2</sup> cable) in a smaller and lighter form factor than alternatives, reducing system complexity and costs while supporting next-generation electric vehicle (EV) subsystems.

### Offers localized manufacturing

With various production locations available, this connector reduces supply chain risks and quality gaps.

### Simplifies design work

The connector is fully compatible and interchangeable with the established Class 3 auxiliary high-voltage interface standard, eliminating redesign work and enabling drop-in replacement.

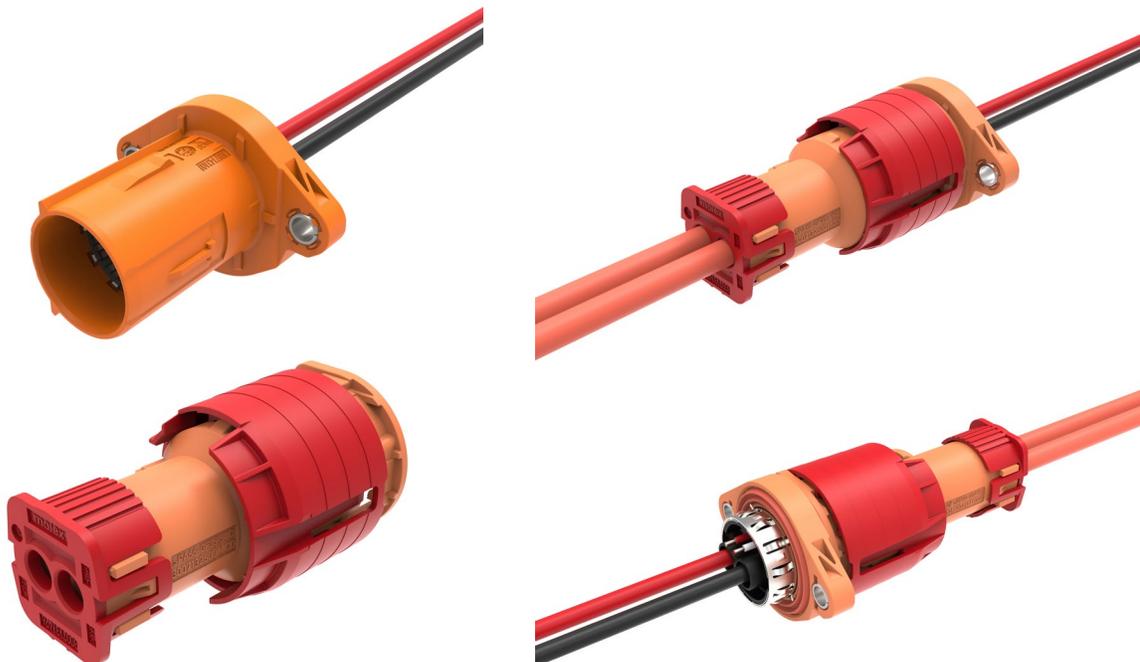
Voltage	Up to 1,000V DC
Current	Up to 64.0A @ +80°C (with 6.00mm <sup>2</sup> cable)
Terminal System	4.00mm round pin
Target Seal Ratings	IP6K9K (mated), IP2XB (unmated), S3
Target Vibration Resistance	SG2 (per LV215-1)/USCAR V3
Operating Temperatures	-40 to +140°C

### Supports use in harsh automotive environments

The seal is targeted to meet IP6K9K (mated)/IP2XB (unmated)/S3 ratings for preventing water or dust ingress, reducing failures even in challenging conditions. Vibration resistance is targeted to meet SG2/V3 specifications, preventing unintended disconnections.

### Enhances EMI shielding performance

The design provides effective EMI resistance in noisy environments. High-resistance electromagnetic compatibility (EMC) shielding (up to 10 Megohms) improves performance and reduces interference in dense system layouts.

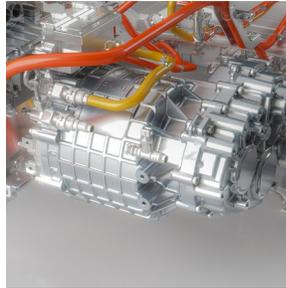


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## MARKETS AND APPLICATIONS

### Automotive

Compressors  
DC/DC converters  
Heaters  
Onboard chargers  
Powertrain connectivity  
Electric motors  
Generators  
High-voltage battery packs  
Traction-power inverter modules



*Electric Motors*



*Electrified Auxiliaries*



*EV Charging Stations*

### Commercial Vehicles

Electrified auxiliaries  
Powertrain subsystems

### Industrial Equipment

EV charging stations  
Energy-storage battery packs  
Forklifts  
High-voltage cable assemblies

## PRELIMINARY SPECIFICATIONS

### Reference Information

Packaging: Bag  
Designed in: Millimeters  
RoHS: Yes  
Halogen Free: Yes  
Standards Compliance: USCAR2, LV215

### Electrical

Voltage (max.): 1,000V DC  
Current (max.): 64.0A @ +80°C (with 6.00mm<sup>2</sup> cable)  
Conductor Cross-Section: 4.00 to 6.00mm<sup>2</sup>  
High-Voltage Interlock Loop: Optional  
(bridged in connector)  
EMC Shielding Resistance: ≤10 Megohms

### Mechanical

Poles: 2  
Configuration: Vertical  
Terminal System: 4.00mm round pin

### Physical

Seal Ratings: IP6K9K (mated), IP2XB (unmated), S3  
Fire Rating: UL94 V-0  
Vibration Resistance: SG2 (per LV215-1)/USCAR V3  
Operating Temperatures: -40 to +140°C