

HIRSCHMANN Automotive PowerStar HPS40 4+2

**Maximum Reliability at High Current Load
and High Temperatures**



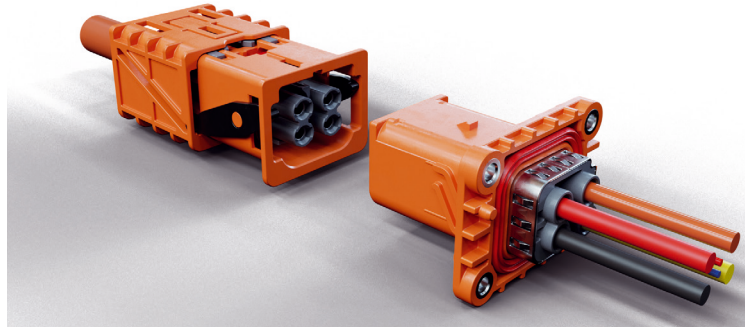
**HIRSCHMANN
AUTOMOTIVE**

Connection technology for all on-board chargers available on the market.

The shielded and sealed HIRSCHMANN Automotive PowerStar 40 4+2 Way connection system is designed for all high-voltage on-board chargers available on the market that are used in electric vehicles. Convincing not only because of its optimized design and low weight, it is difficult to top as regards operating flexibility. As the smallest connection system available in this segment, the product guarantees optimal performance and top processing. A wide variety of device connections can be implemented on request. Naturally, the high-voltage connectors comply with the global standards of the automotive industry. All of our components and their processes are designed in such a way that they are suitable for full automation.

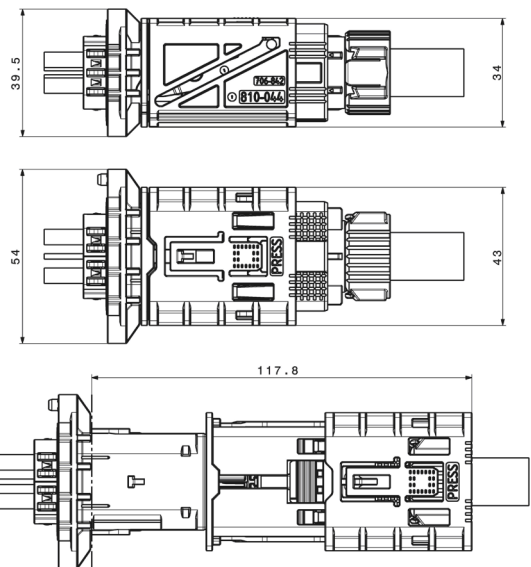
Characteristics:

- high current load at high ambient temperatures
- 360° shielded connection
- compact design
- low shielded transition resistance
- watertight to IP6K9K
- simple installation



Key Features	
Operating conditions	U = 1000 VDC
Environmental conditions	–40°C to +140°C
Current-carrying capacity	48 A/80°C (4.0 x 6.0 mm²) See derating for detailed information
IP protection class	IPXXD (mounted), IPXXB (demounted)
EMC	> 70 dB (10 KHz to 5 MHz) > 65 dB (5 to 500 MHz)
Shielded transition	360°, circumferential
Shielded transition resistance	< 2 mΩ
Vibration resistance	As per LV 215-1, PG 17, SG3 vibration profile, SG4 temperature profile (first cable fixing point at 200 mm)
Cable cross sections	2 x 4.0 to 6.0mm² 3 x 4.0 to 6.0mm² 4 x 4.0 to 6.0mm²
Round contact system	4.0 mm (HCT4)
Contact surface	Ag
Line connection	Crimped
Wire size range	4.0 mm² and 6.0 mm²
No. of connection cycles	Max. 50 cycles
Transition resistances	As per LV 215-1
Housing system	
Contact-protected	
HV plug connector with integrated HVIL system	Load contacts: at least 1 mm, leading
Connection and disconnection force	< 75 N
Secondary locking	Activation force: < 50 N, no unintentional opening possible
Polarization/coding	Incorrect insertion force: at least 300 N
Koshiri safety	Yes
Watertightness	IP6K9K and IPX8 PG 23 as per LV 214
CPA	Yes

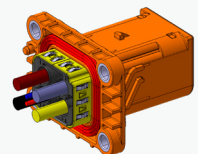
4 + 2 Way



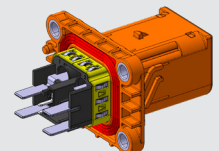
Product variants for optimal device connection

Straight

Line connection



Charging connection



Customer-specific connection variants on request

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