



HIRSCHMANN Automotive PowerStar HPS40-2

**Highest reliability with high current load
and high temperature**



**HIRSCHMANN
AUTOMOTIVE**

Efficient connection for all auxiliary units.

The HIRSCHMANN Automotive PowerStar 40-2 convinces in particular with its optimized design and low weight. Even at high temperatures, the high-voltage connector is fully efficient and waterproof to IP6K9K, thus ensuring safe operation even under harsh environmental conditions. It is easy to assemble, has an integrated interlock and an all-round shielding transition for secure connection and disconnection. The HCT4 contact system is a proprietary development of Hirschmann Automotive.

On request, device connections can be implemented in different versions, and multiple connections with optimised installation space are also possible. The high-voltage connectors obviously meet the global automotive industry standards. 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
- easy mountability
- integrated Interlock
- interface “connector-to-shield” with low electrical resistance
- robust design
- watertight in accordance with IP6K9K



Key Features	2 + 2 Way
Operating condition	U = 1000 VDC
Ambient condition	–40 °C to +140 °C
Maximum current load	Cat. 1: 40 A (6.0 mm ²) (see derating) 64 A/80 °C; 55 A/100 °C; 45 A/125 °C; 37 A/140 °C
Voltage class	Class B according to ISO 6469-3:2011 60 VDC < U ≤ 1500 VDC 25 VAC < U _{eff} ≤ 1000 VAC (15–150 Hz)
IP-degree of protection	IPXXD (assembled), IPXXB (disassembled)
EMC	> 70 dB (10 kHz to 5 MHz) > 65 dB (5 MHz to 500 MHz)
Shielded area	360° circumferential
Shield contact resistance	2 mΩ (total from sheathed cable until aggregate housing) I = 20 A
Vibration strength	According to LV 215-1, PG 17, class 3 (first fixation point at 200 mm)
Annular contact system	4.0 mm (HCT4)
Contact surface	Ag
Line connector	Crimped
Wire size range	2.5 mm ² , 4.0 mm ² and 6.0 mm ²
Number of contact durability	Max. 50 cycles
Contact resistance	According to LV 215-1
Housing system	
Touch proof HV connector with integrated HVIL-system	High performance contacts: min. 2.0 mm, voreilend
Mating and unmating force	< 75 N
Secondary locking	Activating force: < 50 N, No accidental opening possible Misalignment force: min. 300 N
Polarization/Keying	Yes
Koshiri	Yes
Watertightness	IP6K9K and IPX8 PG 23 according to LV 214
CPA	Yes

Product variants for optimum device connection	Straight	Angled
Cable connection		
Blade connection		
Bus bar		On request
Multiple connection		On request

Customer-specific connection variants on request

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