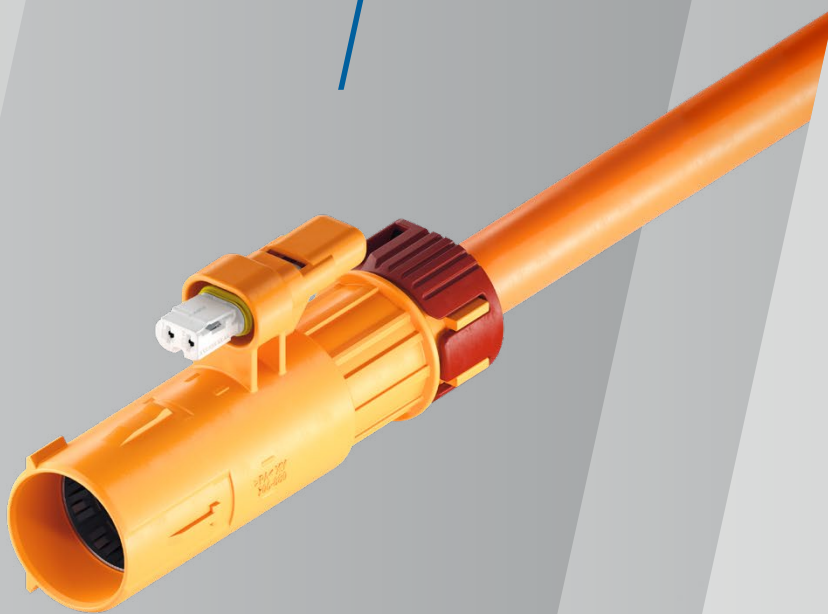


HPS In-Line Connector

Maximum Reliability at High Current Load
and High Temperatures



HIRSCHMANN
AUTOMOTIVE

SAFE SEPARATING POINT THAT ENABLES THE FLEXIBLE DESIGN OF IN-VEHICLE HIGH-VOLTAGE ELECTRICAL SYSTEMS

The shielded and sealed HIRSCHMANN AUTOMOTIVE PowerStar In-Line Connector offers an optimal separating point. Its compact design enables top installation conditions.

Optionally, the connection system is also available with interlock. The product series complies with all global standards and norms of the automotive industry.



Characteristics:

- compliant with several automotive test specifications
- watertight according to IP6K9K
- high current load at high ambient temperatures
- 360° shielded connection
- compact design
- low shielded transition resistance
- simple installation

TECHNICAL PRODUCT INFORMATION

| | |
|--|--|
| CURRENT CLASS | current class 1 and 2 connector |
| APPLICATIONS | inline connection |
| NUMBER OF PINS | 2 (high voltage) + 2 (HVIL optional) |
| OPERATING CONDITIONS | 1,000 VDC |
| VOLTAGE CLASS | class B according ISO 6469-3:2011 60 VDC < U ≤ 1,000 VDC 25 VAC < Ueff ≤ 707 VAC (15-150 Hz) |
| AMBIENT CONDITION | -40° C to +140° C |
| MAXIMUM ALTITUDE | 4,000 m |
| MAXIMUM CURRENT LOAD | 59 A at 80° C (6.0 mm ²), see deratings product specification |
| IP-DEGREE OF PROTECTION | IPXXB (unmated), IPXXD (mated) |
| WATERTIGHTNESS | IP6K9K, IPX8 |
| EMC PERFORMANCE (6.0 MM ²) | until 30 MHz < 5 mΩ/m > 75 dB (10 kHz to 500 MHz) > 75 dB (500 MHz to 1,000 MHz) |
| SHIELDED AREA | 360° circumferential |
| SHIELD CONTACT RESISTANCE | < 2,0 mΩ (total from sheathed cable until aggregate housing) |
| VIBRATION STRENGTH 2 | according to LV214/215 - PG17 (without fixation point) |
| VIBRATION STRENGTH 3 | according to LV214/215 - PG17 (first fixation point at < 200 mm) |
| VIBRATION STRENGTH 4 | according to LV214/215 - PG17 (first fixation point at < 50 mm) |
| MATING/UNMATING FORCE | < 65 N |
| SECONDARY LOCK SYSTEM | activating force < 40 N, no unintentional opening possible |
| KOSHIRI SAFETY | yes |
| POLARIZATION/CODING | incorrect insertion force > 200 N |
| CPA SYSTEM | operating force < 30 N |
| HVIL SYSTEM | minimum 1.0 mm (nominal 2.0 mm), leading |

CONTACT SYSTEM INFORMATION

| | |
|------------------|---|
| CONTACT SYSTEM | HCT4 (4.0 mm round terminal), Ag, crimped |
| MATERIAL/SURFACE | Cu-Leg., CuNiSi, Ag |
| CONNECTION | crimped |
| MATING CYCLES | maximum 50 cycles |

CUSTOMER-SPECIFIC INFORMATION

| | |
|-------------------------|--|
| CABLE CROSS SECTION | 2.5 mm ² , 4.0 mm ² , 6.0 mm ² as MCC and SCC solutions |
| CONTACT CARRIER CODINGS | A, B, C, D, Z |

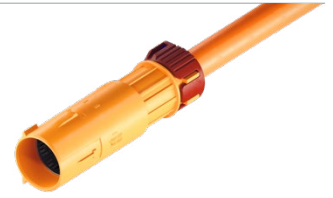
HPS IN-LINE CONNECTOR PRODUCT VARIANTS

FEMALE

MALE WITH HVIL

MALE WITHOUT HVIL

MULTICORE CONNECTION



SINGLECORE CONNECTION



When using the variant without HVIL, the female connector is the HPS40-2 2+2 without the HVIL housing.

SEEKING MORE DETAILED INFORMATION?
SCAN ME AND BROWSE THROUGH THE
PRODUCT CATALOGUE.



**Elisa-Maria Jussel is your
Contact for Individual Questions**

Technical Sales



+43 5522 307 1184



+43 664 884 564 87



elisa-maria.jussel@hirschmann-automotive.com



Hirschmann Automotive GmbH

Oberer Paspelsweg 6–8
6830 Rankweil, Austria

www.hirschmann-automotive.com
shop.hirschmann-automotive.com

