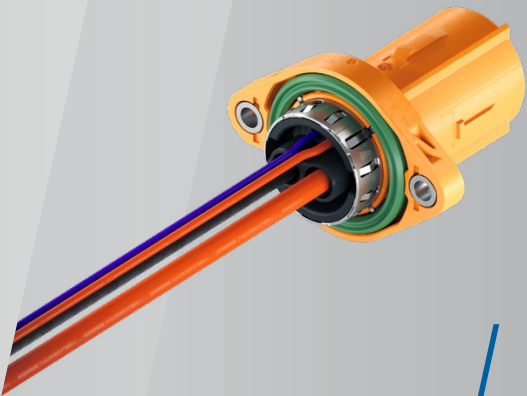
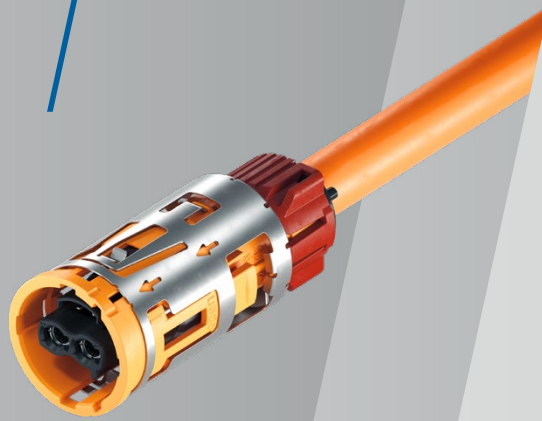


HPS40-2 2+2

Highest Reliability with High Current Load
and High Temperature



HIRSCHMANN
AUTOMOTIVE

EFFICIENT CONNECTION FOR ALL AUXILIARY UNITS

In cooperation with well-known OEMs, Hirschmann Automotive developed a future-oriented system:

The HIRSCHMANN AUTOMOTIVE PowerStar high-voltage connectors. The innovative solutions fulfill highest quality requirements and comply with global automotive standards.

The HPS40-2 2+2 is particularly impressive due to its optimized design and low weight. The connector is watertight and fully efficient even at high temperatures – thus ensuring safe operation even under harsh environmental conditions. The system is easy to assemble, have an integrated interlock and a circumferential shield transition for secure connection and disconnection.



Characteristics:

- compliant with several automotive test specifications
- watertight according to IP6K9K
- easy assembling
- integrated interlock
- 360° shielded connection
- low shield contact resistance
- high current load at high ambient temperatures
- robust design

The HCT4 contact system is an in-house development by Hirschmann Automotive. Device connections can be implemented in different variants on request. Multiple connections with optimized installation space are also possible.

TECHNICAL PRODUCT INFORMATION

| | |
|--|--|
| CURRENT CLASS | current class 1 and 2 connector |
| APPLICATIONS | auxiliary units |
| 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 | 64 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 < 1 mΩ/m > 75 dB (10 kHz to 500 MHz) > 65 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 |








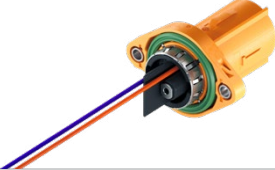

CONTACT SYSTEM INFORMATION

| | |
|------------------|---|
| 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 |

HPS40-2 2+2 PRODUCT VARIANTS

| FEMALE | 180° MALE | 90° MALE |
|---|---|---|
| MULTICORE CONNECTION | | CABLE CONNECTION |
|  |  |  |
| SINGLECORE CONNECTION | | BLADE CONNECTION |
|  |  |  |
| BLINDPLUG | | BUS BAR CONNECTION |
|  |  | Not Available |
| | | MULTIPLE CONNECTION |
| |  | Not Available |

Customer-specific connection variants on request.

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



**Contact our Sales Team
for Individual Questions**



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