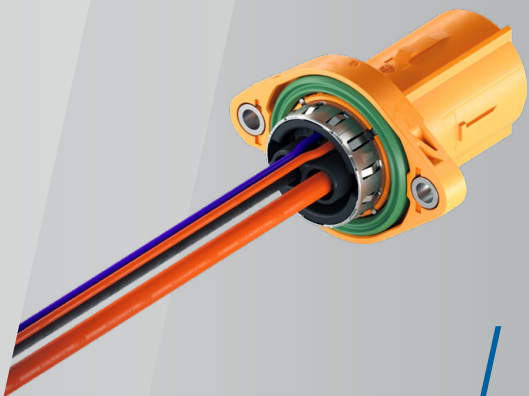
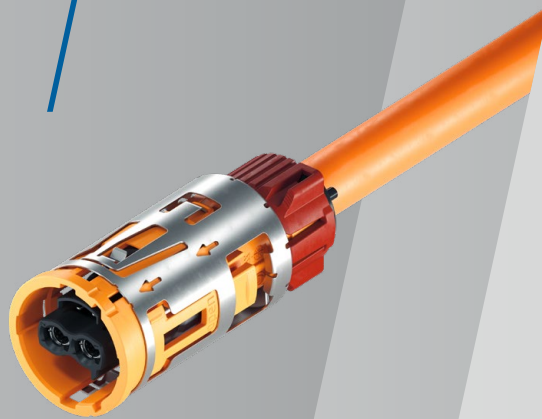


HPS40-2 2+2

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








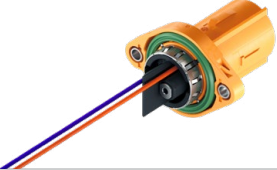

CONTACT SYSTEM INFORMATION

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 CATALOG.



**Daniel Engstler is your Contact
for Individual Questions**

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