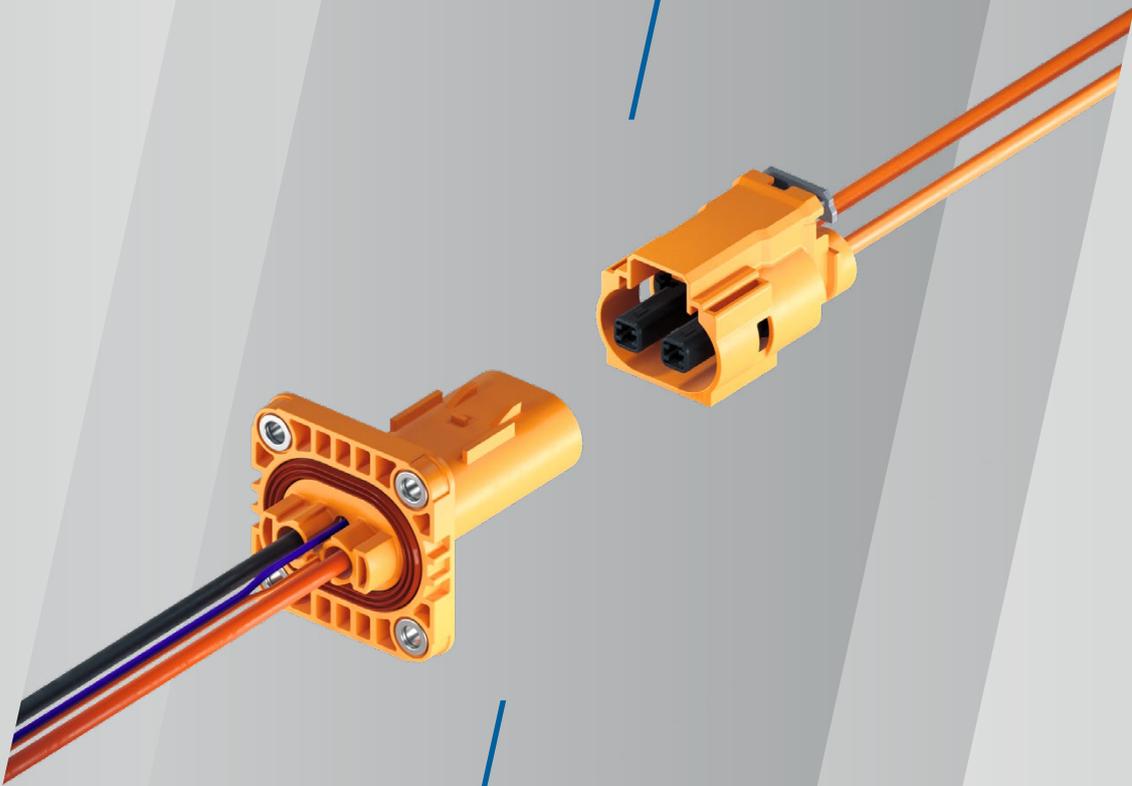


# HPS 2+2 UNSHIELDED

Effortless High Voltage Connections for EV  
Auxiliary Units



HIRSCHMANN  
AUTOMOTIVE

# EFFICIENT CONNECTION FOR ALL AUXILIARY UNITS

Step into a new era of high voltage connectivity with our unshielded high voltage connection system, designed to redefine the way auxiliary units in electric vehicles are connected. Whether you're an automotive manufacturer or a technology enthusiast, our connector offers a seamless solution for efficient and streamlined connections of auxiliary units.

Driven by innovation, our unshielded high voltage connector system sets a new standard for auxiliary unit integration. Its cutting-edge design ensures quick, secure, and effortless processing, making it an essential component for enhancing the connection of auxiliary units in electric vehicles.



## Characteristics:

- compliant with several automotive test specifications
- unshielded connector system
- easy processing
- robust and simple design
- IPXXB+ with optional HVIL
- different terminal options
- high current load at high ambient temperatures
- watertight according to IP6K9K

## 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 < U <sub>eff</sub> ≤ 707 VAC (15-150 Hz)
AMBIENT CONDITION	-40° C to +125° C
MAXIMUM ALTITUDE	5,600 m
MAXIMUM CURRENT LOAD	40 A at 80° C (4.0 mm <sup>2</sup> Cu, HPS28 2+2 unshielded) 58 A at 80° C (6.0 mm <sup>2</sup> Cu, HPS63 2+2 unshielded) 62 A at 80° C (6.0 mm <sup>2</sup> Cu, HPS40 2+2 unshielded)
IP-DEGREE OF PROTECTION	IPXXB+ (unmated), IPXXD (mated)
WATERTIGHTNESS	IP6K9K, IPX8
SHIELDED AREA	unshielded
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)
MATING/UNMATING FORCE	< 50 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, 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
ADDITIONAL CONTACTS	MCP, CTS, MAK

## CUSTOMER-SPECIFIC INFORMATION

CABLE CROSS SECTION	1.5 mm <sup>2</sup> , 2.5 mm <sup>2</sup> , 4.0 mm <sup>2</sup> , 6.0 mm <sup>2</sup>
CONTACT CARRIER CODINGS	A, B, C, D, Z

## HPS 2+2 UNSHIELDED PRODUCT VARIANTS



Customer specific connection variants on request.



**Tobias Natter is your Contact  
for Individual Questions**

Global Product Manager High Voltage



+43 5522 307 1839



+43 664 889 317 73



tobias.natter@hirschmann-automotive.com

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



**Hirschmann Automotive GmbH**

Oberer Paspelsweg 6–8  
6830 Rankweil, Austria

[www.hirschmann-automotive.com](http://www.hirschmann-automotive.com)  
[shop.hirschmann-automotive.com](http://shop.hirschmann-automotive.com)

