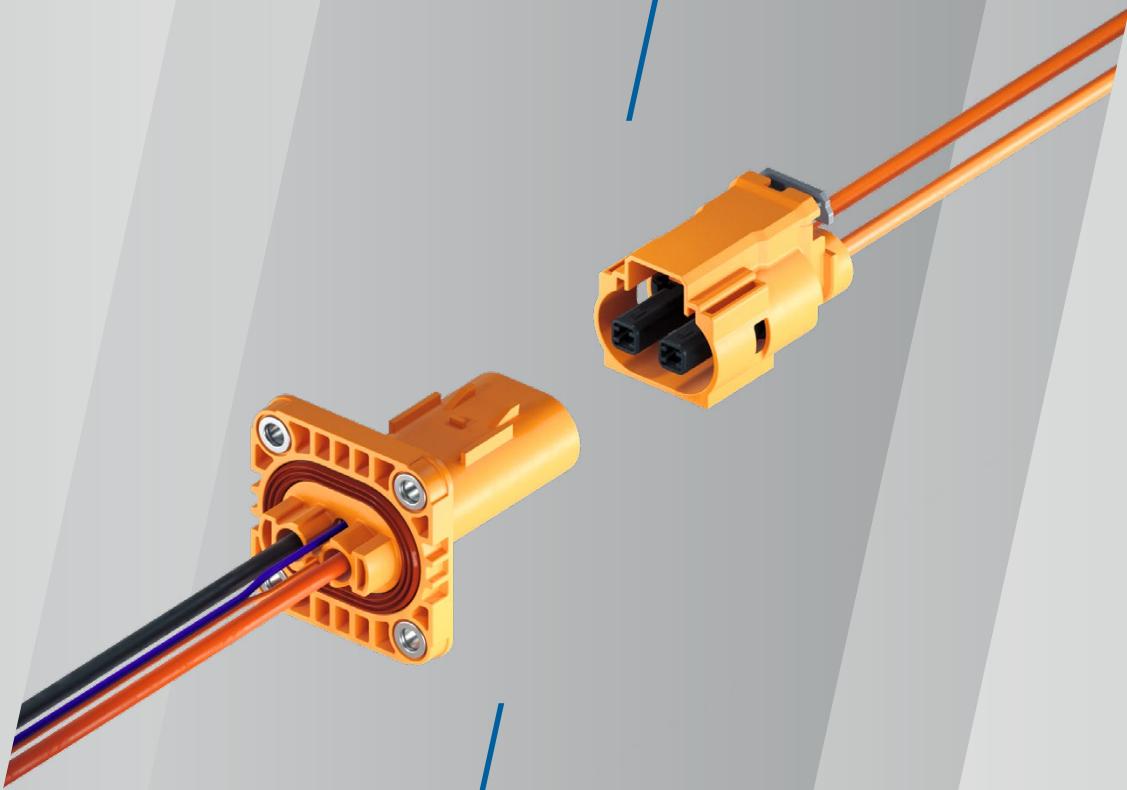


# HPS 2+2 UNSHIELDED

Effortless High Voltage Connections for EV  
Auxiliary Units

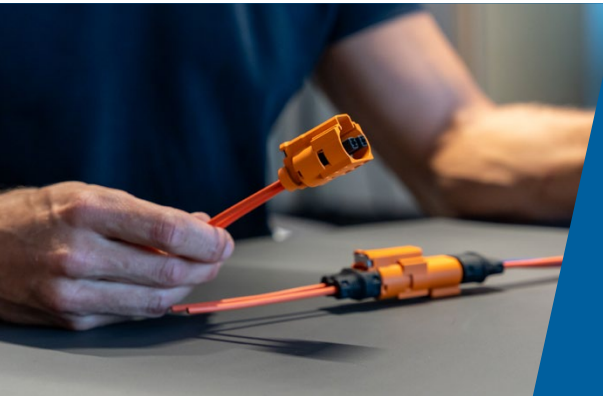


HIRSCHMANN  
AUTOMOTIVE

# 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<br>60 VDC < U ≤ 1,000 VDC<br>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)<br>58 A at 80° C (6.0 mm <sup>2</sup> Cu, HPS63 2+2 unshielded)<br>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

### FEMALE

SINGLECORE CONNECTION



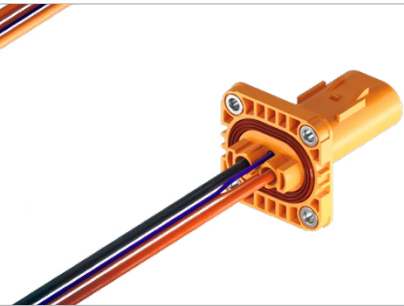
### IN-LINE

SINGLECORE CONNECTION



### 180° MALE

CABLE CONNECTION



Customer specific connection variants on request.


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



**Elisa-Maria Jussel is your  
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