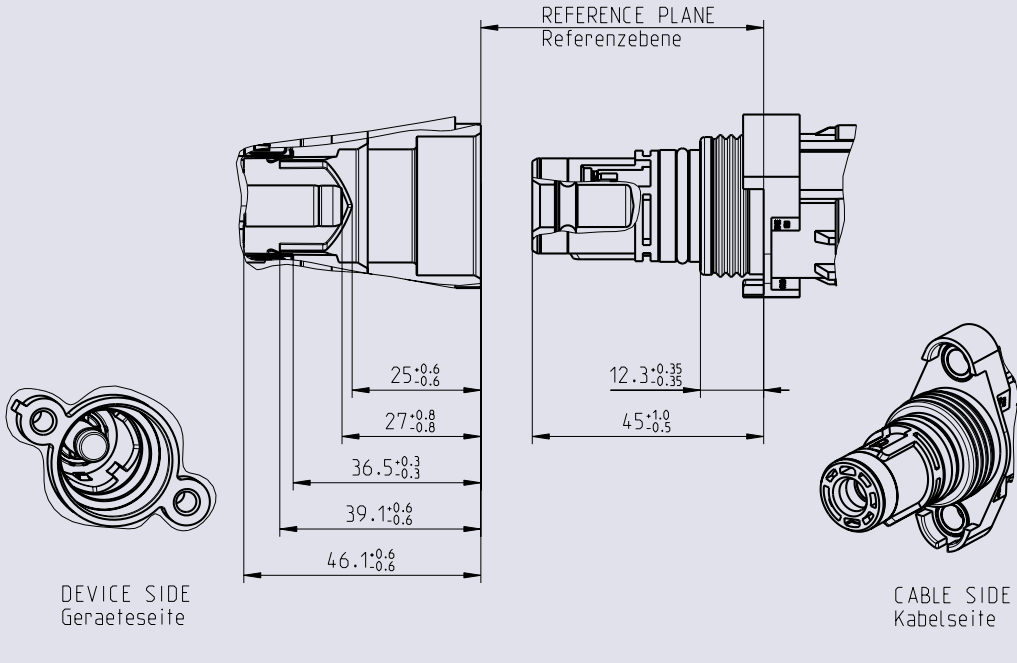


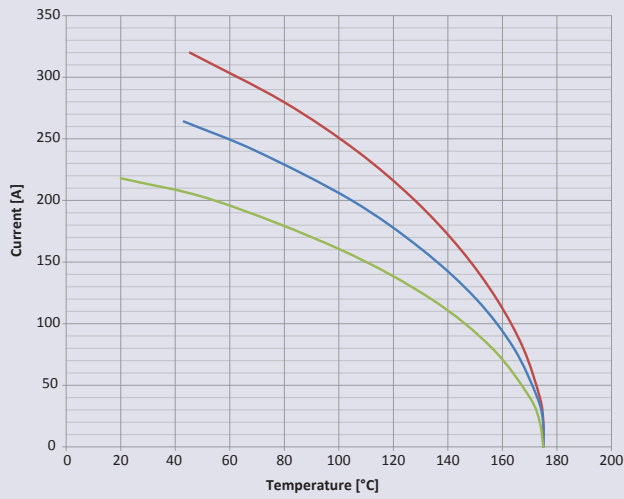
Interface Dimensions HPK

Code H4

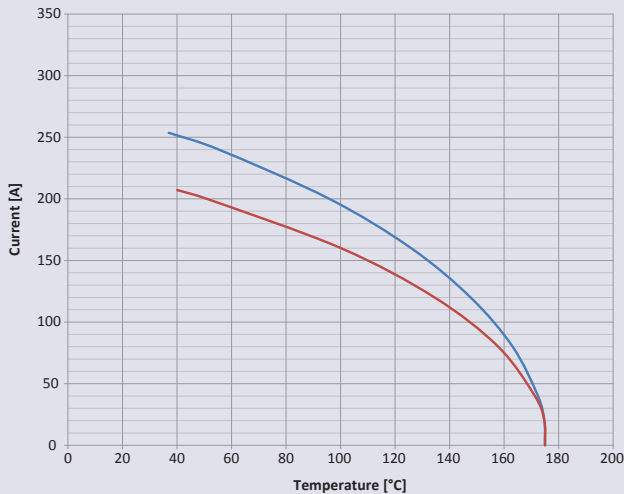
Dimensions in mm



Derating Graph HPK acc. to DIN EN 60512-5-2



HPK Copper Cables



HPK Aluminum Cables

Technical Data HPK

Code H4

Electrical data	
Insulation resistance	≥ 200 MΩ
Voltage class	B 60 V DC < U ≤ 1500 V DC 25 V AC < U ≤ 1000 V AC
Contact resistance (current)	≤ 0.78 mΩ
Contact resistance (EMV)	≤ 10 mΩ
Ampacity for 6 mm ²	240 A at 105°C acc. to DIN EN 60512-5-2
Test voltage	2700 V DC
Working voltage	750 V DC
EMI (shielding effectiveness)	70 dB (10 kHz – 5 MHz) 65 dB (5 MHz – 500 MHz)
High Voltage Interlock (HVIL)	available
Mechanical data	
Mating cycles	≥ 50
Engagement force	1pin: < 100 N 2pin: < 100 N
Cable cross sections copper	16 mm ² , 25 mm ² , 35 mm ² , 50 mm ²
Cable cross sections aluminum	35 mm ² , 50 mm ²
Coding efficiency	≥ 300 N
Cable connection angle	180°
Vibration class	LV215 PG17-II
IP class (mated)	IP6K9K/ IPX8/ IPXXD
IP class (unmated)	IPXX2B
Touch proof	acc. to DIN EN 60529
Environmental data	
Temperature range	-40 °C to +140 °C
RoHS	compliant
Design characteristics	
1-3 (1+2) pole connectors	
2 screw mounting	
Mounting hole- and coding-system	
Locking device on harness-side connector acc. to AK standards (VV)	

Limitations are possible due to the used cable type.

Fields of Application





- ▶ Battery connection
- ▶ Inverter
- ▶ E-machine

Interface Drawing

- ▶ RN_084-01

Coding

HPK

Coding		Coding	Jack	Color/ RAL-Nr.
Z		A		Red/ 3001
Z		B		Black/ 9005
Z		C		Waterblue/ 5021

Color specification

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing may occur.

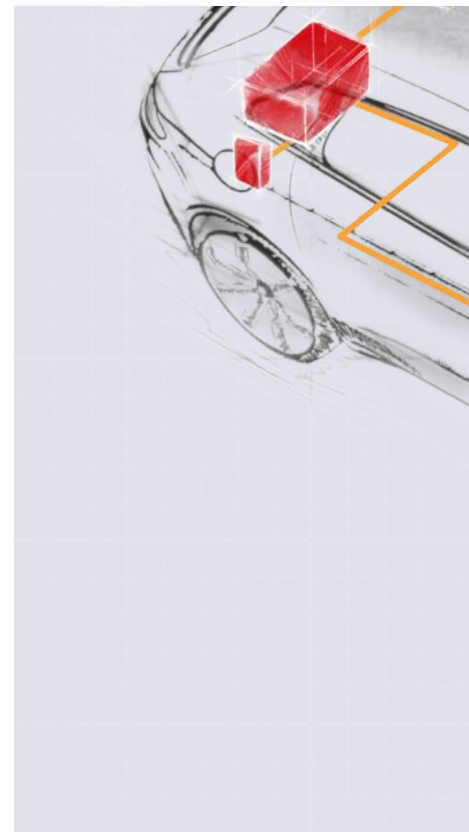
Cables

Copper

- ▶ FHLR2GCB2G 16 mm² / 0.21; LV 216-2
- ▶ FHLR2GCB2G 25 mm² / 0.21; LV 216-2
- ▶ FHLR2GCB2G 35 mm² / 0.21; LV 216-2
- ▶ FHLR2GCB2G 50 mm² / 0.21; LV 216-2






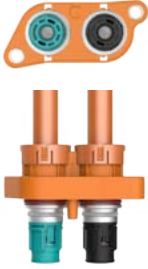




Aluminum

- ▶ FHLALR2GCB2G 35 mm²; LV 216-2
- ▶ FHLALR2GCB2G 50 mm²; LV 216-2



Coding

HPK

Coding		Coding	Jack	Color/ RAL-Nr.	
B		B		Black/ 9005	
		A		Red/ 3001	
C		B		Black/ 9005	
		C		Waterblue/ 5021	

Color specification

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing may occur.

