

dimensions are in mm

Interface

According to

RN_084-01

Documents

Assembly instruction

MA_HV0051

Process instruction (ultrasonic welding)

RN_087-01

Process data sheet (ultrasonic welding)

RN_087-11

Preliminary

Material and plating

Connector parts

Outer contact
 Outer contact (Pigtail)
 Center Contact (Pigtail)
 Center Contact
 Press-In bush (Pigtail)
 Contact Spring (Power)
 Supporting ring
 Contact Spring (Shielding)
 Crimp sleeve
 Press in nut
 Insulator I
 Insulator II
 Insulator (Pigtail) I
 Insulator (Pigtail) II
 Housing
 Protective cover
 Seal (Housing)
 Seal (Cable)
 Protective cap

Material

Brass
 Brass
 Copper
 Copper
 Brass
 Copper
 Brass
 Copper
 Brass
 Brass
 PA10 GF30
 PA10 GF30
 PA10 GF30
 PA10 GF30
 PBT GF30
 PA12 GF30
 Silicone
 Silicone
 EPDM

Plating / Color

Ag, min. 0,5µm
 Ni, min. 3µm
 Ag, min. 3µm
 Ag, min. 3µm
 Ag, min. 0,5µm
 Ag, min. 3µm
 Ag, min. 3µm
 Ag, min. 0,5µm
 Sn, min. 3µm
 Ag, min. 3µm
 red; black; waterblue
 black
 black
 black
 orange
 orange
 red, oil exudation
 blue, oil exudation
 black

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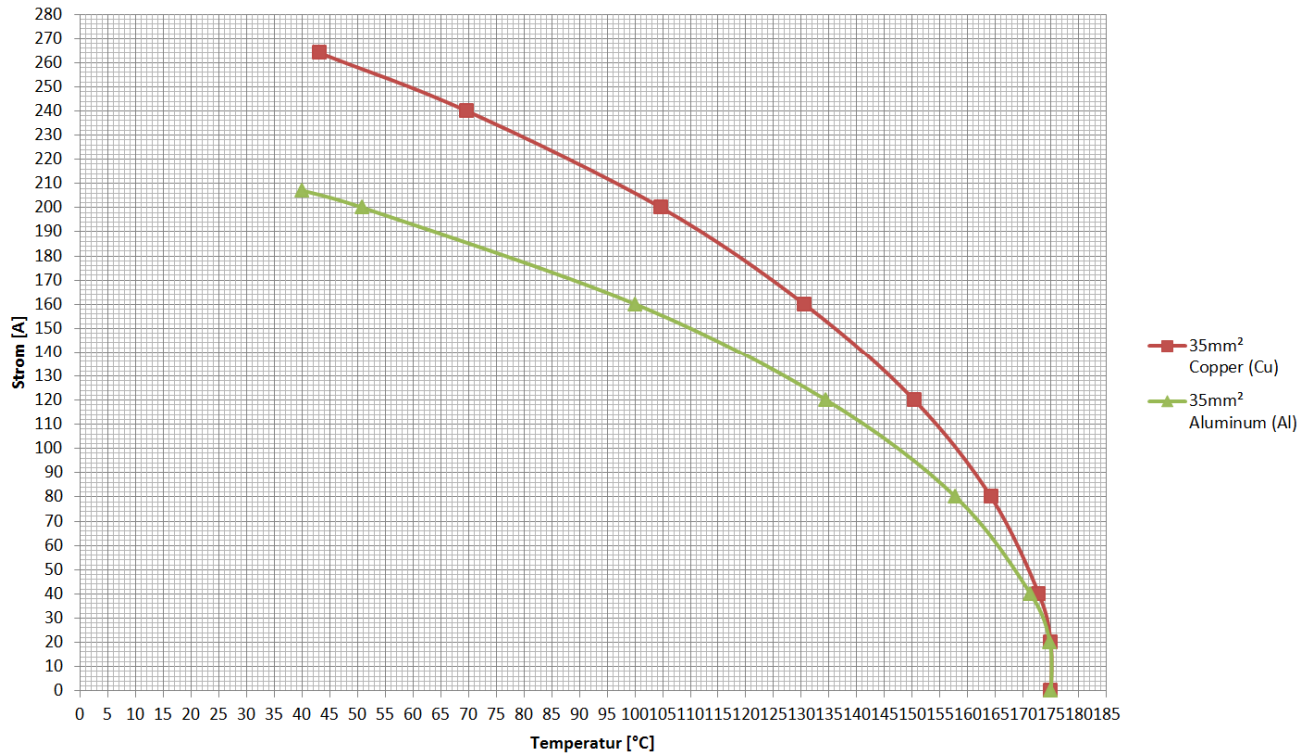
RF_35/09;14/6.2

Preliminary

Electrical data

Insulation resistance	≥ 200 MΩ / 1000 VDC
Voltage class	B
	60 V _{DC} < U ≤ 1500 V _{DC}
	25 V _{AC} < U ≤ 1000 V _{AC}
Contact resistance (Current)	≤ 0.70 mΩ
Contact resistance (EMV)	≤ 10mΩ
Design acc. To DIN EN 60664-1 (2008-1)	
Pollution degree	2
Rated surge voltage	3200 VDC
Max operating altitude	5500m above sea level
Working voltage	1000 VDC
Ampacity According to DIN EN 60512-5-2	see chart

35mm² Cu & Al (80% Derating curve, free in air)



EMI (shielding effectiveness)	70 dB (10 kHz - 5 MHz) 65 dB (5 MHz - 500 MHz)
High Voltage Interlock (HVIL)	No

Mechanical data

Mating cycles	≥ 50
Engagement force	≤ 100 N
Coding efficiency	≥ 300 N
Cable connection angle	90°
IP class (mated)	IP6K9K / IPX8
IP class (unmated)	IPXXB
Vibration class	LV214 (2010-04) PG17-II (Random: DIN EN 60068-2-64) (Sinus: DIN EN 60068-2-6) (Shock: DIN EN 60068-2-27)

Preliminary

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RF_35/09;14/6.2

Technical Data Sheet

Rosenberger

HPK

Right Angled PLUG

H4K209-W2U035B1-YYY

Environmental data

Temperature range
RoHS

-40°C to +140°C
compliant

Tooling

Welding tool
Crimping tool

RN_087-11
MA_HV0051

Preliminary

Suitable cables

Cable Type
Validated Cables

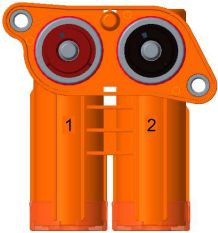

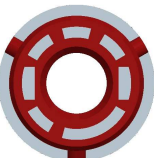
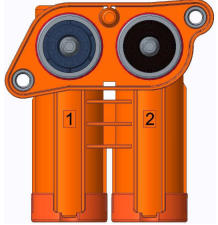

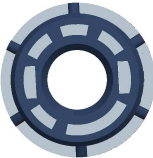
35mm² (LV 216-2)
TBD

Packing

Standard
Weight

for packing see data sheets of piece parts
ca. 379,5 g

Coding

Coding	Connector	Plug coding	Plug	Plug Colour	RAL	Part-Number
B		B		black	sim. 9004	H4K209-W2U035B1-BBA
		A		red	sim. 3001	
C		B		black	sim. 9004	H4K209-W2U035B1-CBC
		C		waterblue	sim. 5021	

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
P. Simon	10.01.18	P. Simon	03.09.19	500	19-1675	T.Niepalla	03.09.19

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