

All dimensions are in mm

Interface

According to RN_084-01

Documents

Assembly instruction TBD
Process instruction (ultrasonic welding) RN_087-01
Process data sheet (ultrasonic welding) RN_087-11

Material and plating

Connector parts

	Material	Plating / Colour
Outer contact	Brass	Ag, min. 0,5µm
Outer contact (Pigtail)	Brass	Ni, min. 3µm
Center contact (Pigtail)	Copper	Ag, min. 3µm
Center contact	Copper	Ag, min. 3µm
Press-In bush (Pigtail)	Brass	Ag, min. 0,5µm
Contact spring (Power)	Copper	Ag, min. 3µm
Supporting ring	Brass	Ag, min. 3µm
Contact spring (Shielding)	Copper	Ag, min. 0,5µm
Crimp sleeve	Brass	Sn, min. 3µm
Press in nut	Brass	Ag, min. 3µm
Insulator I	PA10 GF30	red; black; waterblue
Insulator II	PA10 GF30	black
Insulator (Pigtail) I	PA10 GF30	black
Insulator (Pigtail) II	PA10 GF30	black
Housing	PBT GF30	orange
Protective cover	PA12 GF30	orange
Seal (Housing)	Silicone	red, oil exudation
Seal (Cable)	Silicone	blue, oil exudation
Protective cap	EPDM	black

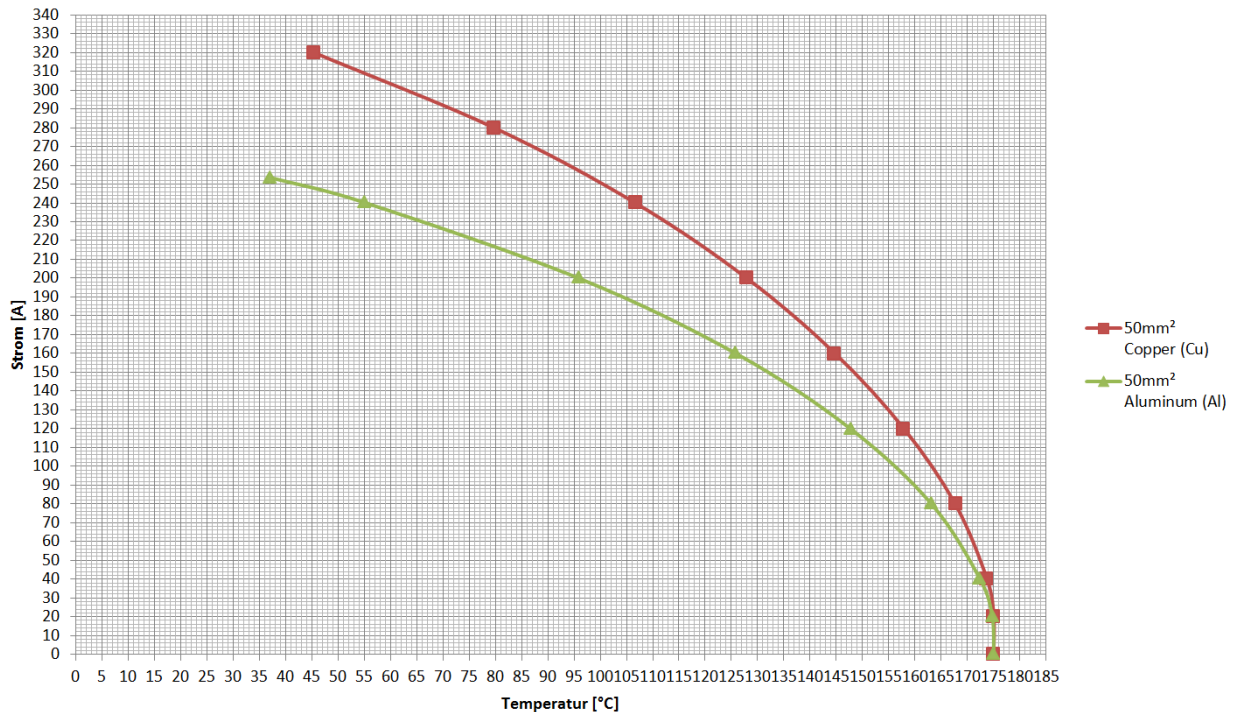
Preliminary

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG RF_35/09.14/6.2

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

50mm² 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)	Yes

Mechanical data

Mating cycles	≥ 50
Engagement force	TBD
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

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF_35/09.14/6.2

Technical Data Sheet

Rosenberger

HPK

Right Angled PLUG

H4K215-W1U050B1-YY

Environmental data

Temperature range -40°C to +140°C
RoHS compliant

Tooling

Welding tool see RN_087-11
Crimping tool TBD

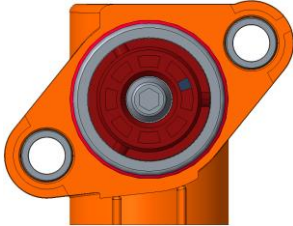



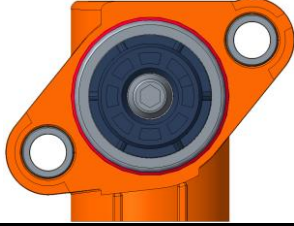

Suitable cables

Cable Type 50mm² (LV 216-2)
Validated Cables TBD

Packing

Standard for packing see data sheets of piece parts
Weight ~200 g

Coding

Housing coding	Connector	Plug coding	Plug	Plug Colour	RAL	Part-Number
		A		red	sim. 3001	H4K215-W1U050B1-ZA
Z		B		black	sim. 9004	H4K215-W1U050B1-ZB
		C		waterblue	sim. 5021	H4K215-W1U050B1-ZC

Preliminary

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
G. Höfelmeier	05.09.18	A.Voglsperger	17.10.19	400	19-v663	S. Höglauer	11.10.19

Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel. : +49 8684 18-0
Email : info@rosenberger.de

Page
3 / 3