

Interface

According to

RN_084-01

Documents

- Assembly instruction
- Process instruction (ultrasonic welding)
- Process data sheet (ultrasonic welding)

- MA_HV0104
- RN_087-01
- RN_087-14

Material and plating

Connector parts

- Outer contact
- Contact spring (shielding)
- C-ring contact (HVIL)
- Center contact
- Contact spring (power)
- Crimp sleeve
- Press in sleeve
- Insulator
- Housing
- Protective cover
- Seal (Housing)
- Seal (Cable)
- Protective cap

- Material**
- Brass
- Copper
- Spring bronze
- Copper
- Copper
- Brass
- Brass
- PA10 GF30
- PA12 GF30
- PA12 GF30
- Silicon
- Silicon
- EPDM

- Plating / Colour**
- Ag, min. 0,5µm
- Ag, min. 0,5µm
- Ag, min. 0,5µm
- Ag, min. 3µm
- Ag, min. 3µm
- Sn, min. 3µm
- Ni, min. 3µm
- red; black; waterblue
- orange
- orange
- red, oil exudating
- blue, oil exudating
- black

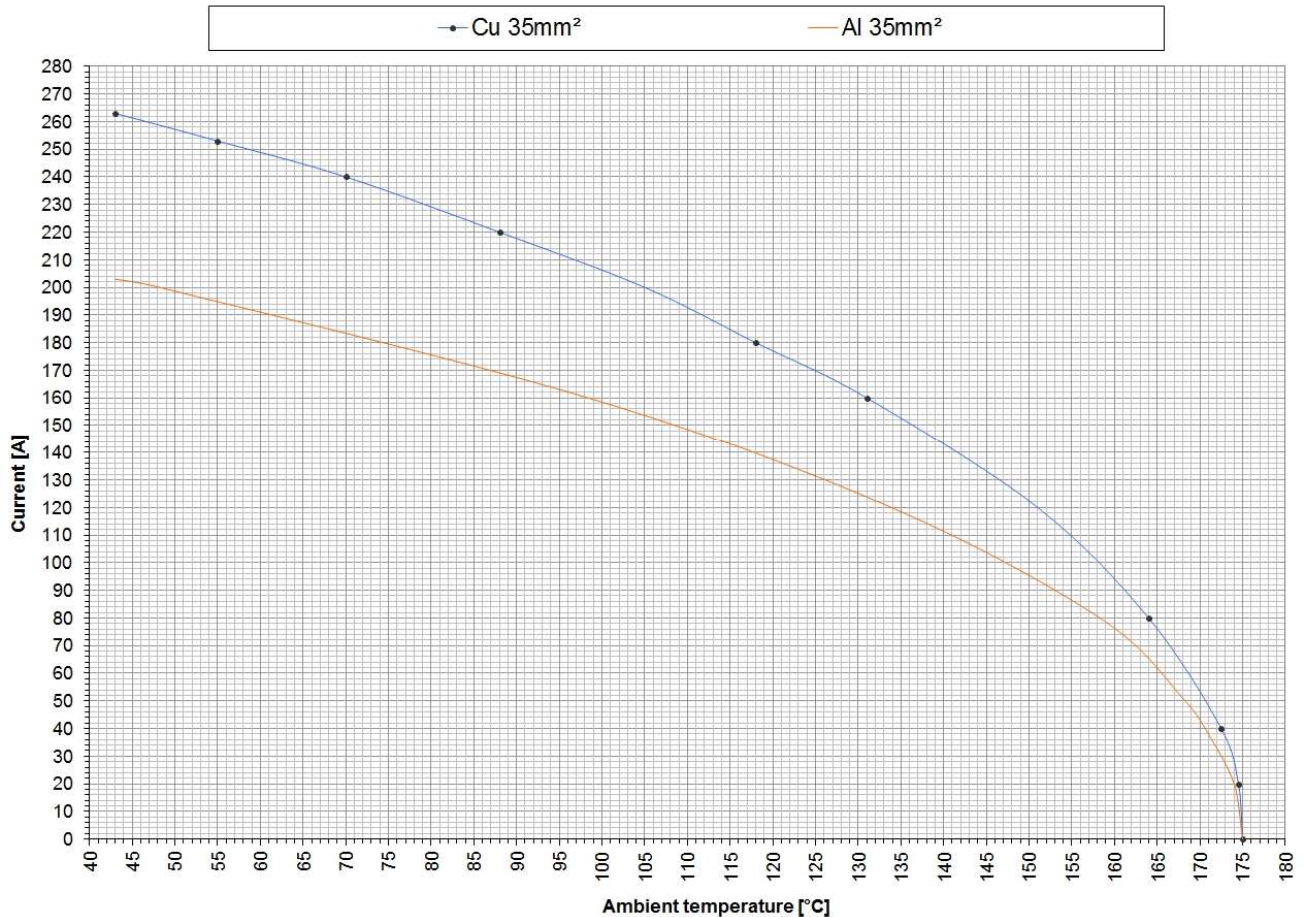
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Electrical data

Insulation resistance	≥ 200 MΩ / 1000 V_DC
Voltage class	B 60 V_DC < U ≤ 1500 V_DC 25 V_AC < U ≤ 1000 V_AC
Contact resistance (Current)	≤ 0,4 mΩ
Contact resistance (EMV)	≤ 1 mΩ
Design acc. to DIN EN 60664-1 (2008-1)	
Pollution degree	2
Type of isolation	Basic Isolation
Max. Altitude	5500m above sea level
Working voltage	1000 V_DC
Test voltage	3200 V_DC (at max. altitude 2000m above sea level)
Rated surge voltage	2500 V_DC
Ampacity According to DINEN60512-5-2	see chart

Copper & Aluminum cable 35mm² (80% Derating chart, free in air)



EMI (shielding effectiveness)	70 dB (10 kHz - 5 MHz) 65 dB (5 MHz - 500 MHz)
High Voltage Interlock (HVIL)	Yes

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Mechanical data

Mating cycles	≥ 50
Engagement force	≤ 75 N
Coding efficiency	≥ 300 N
Cable connection angle	180°
IP class (mated)	IP6K9K / IPX8 / IPXXD
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)

Environmental data

Temperature range	-40°C to +140°C
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Tooling

Welding tool	see RN_087-14
Crimping tool	see MA_HV0104

Suitable cables

Cable type	35 mm ² (LV 216-2)
Validated cables	Coroplast: Part No.: 9-2611 / 35mm ² Type: FHLR2GCB2G, 35mm ² Leoni: Part No.: FHLR2GCB2G00009 Type: FHLR2GCB2G, 35mm ² Kromberg & Schubert: Part No.: 64996018 Type: FHLALR2GCB2G, 35mm ²

Packing

Standard	for packing details see data sheets of piece parts
Weight	105 g/pcs

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Coding

Housing coding	Connector	Plug coding	Plug	Plug colour	RAL	Part-Number
Z		A		red	sim. 3001	H4K134-W10035B1-ZA
		B		black	sim. 9004	H4K134-W10035B1-ZB
		C		waterblue	sim. 5021	H4K134-W10035B1-ZC

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
H. Mühlfellner	29.07.14	A. Koleber	07.08.19	a00	19-s204	T. Pscheiden	07.08.19