

Interface

According to RN_084-01

Documents

Assembly instruction MA_HV0104
 Process instruction (ultrasonic welding) RN_087-01
 Process data sheet (ultrasonic welding) RN_087-14

Material and plating

Connector parts

Connector parts	Material	Plating / Colour
Outer contact	Brass	Ag, min. 0,5µm
Contact spring (shielding)	Copper	Ag, min. 0,5µm
Center contact	Copper	Ag, min. 3µm
Contact spring (power)	Copper	Ag, min. 3µm
Crimp sleeve	Brass	Sn, min. 3µm
Press in sleeve	Brass	Ni, min. 3µm
Insulator	PA10 GF30	red; black; waterblue
Housing	PA12 GF30	orange
Protective cover	PA12 GF30	orange
Seal (Housing)	Silicon	red, oil exudating
Seal (Cable)	Silicon	green, oil exudating
Protective cap	EPDM	black

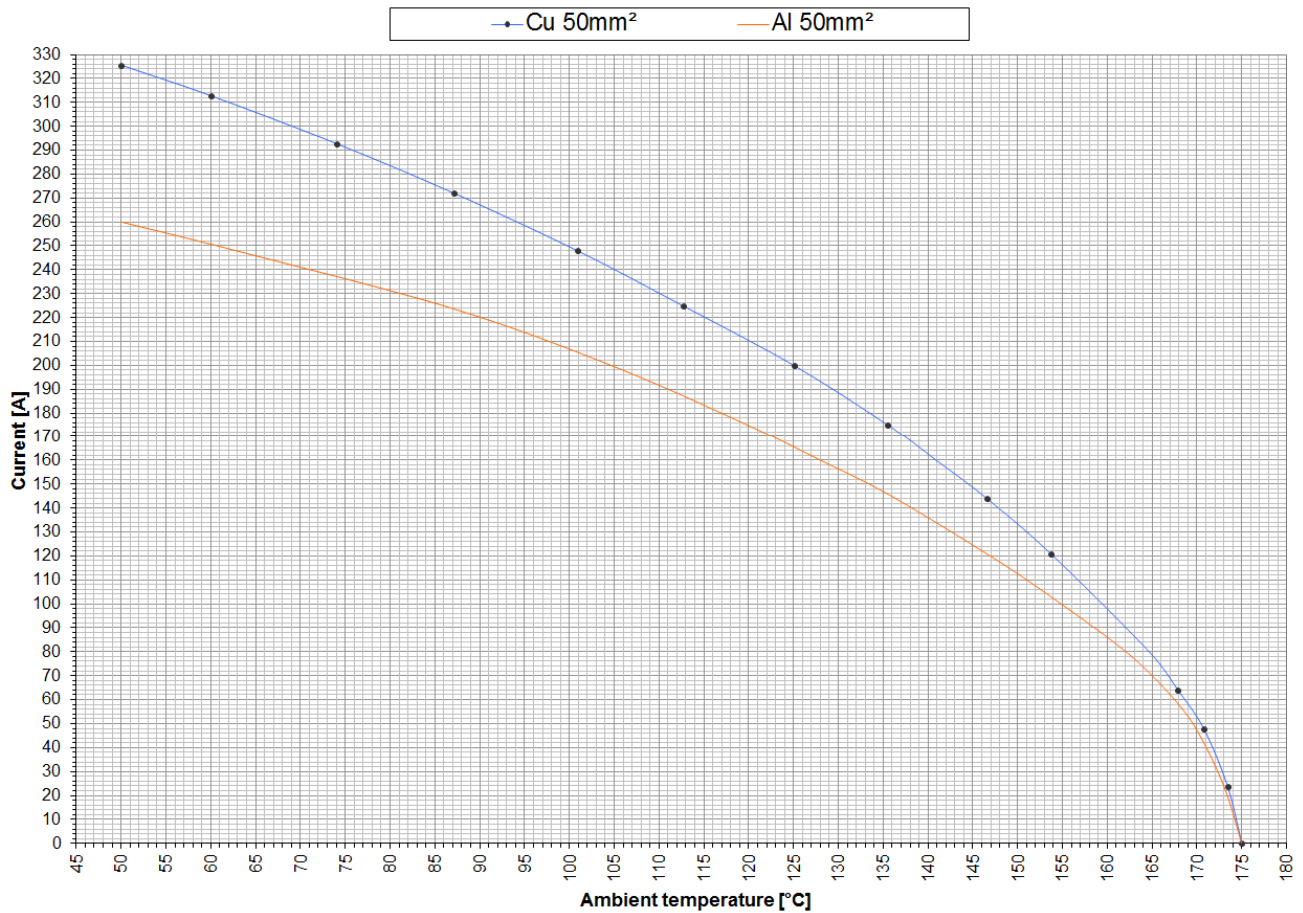
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Electrical data

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 50 mm² (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)	No

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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	50 mm ² (LV 216-2)
Validated cables	Coroplast: Part No.: 9-2611 / 50mm ² Type: FHLR2GCB2G, 50mm ² Leoni: Part No.: FHLR2GCB2G00010 Type: FHLR2GCB2G, 50mm ² Huber & Suhner: Part No.: 84096257 Type: FHLR4GC13X, 50mm ² Kromberg & Schubert: Part No.: 64996020 Type: FHLALR2GCB2G, 50mm ² Gebauer & Griller: Part No.: 146774 Type: FHLALR2GCB2G, 50mm ²

Packing

Standard	for packing details see data sheets of piece parts
Weight	103 g/pcs

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Coding

Housing coding	Connector	Plug coding	Plug	Plug colour	RAL	Part-Number
Z		A		red	sim. 3001	H4K137-W10050B1-ZA
		B		black	sim. 9004	H4K137-W10050B1-ZB
		C		waterblue	sim. 5021	H4K137-W10050B1-ZC

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
L. Schneider	08.01.15	A. Koleber	06.11.19	a00	19-s204	T_Pscheiden	06.11.19

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