

pinning	colour	cable
1	red	4mm ²
2	black	4mm ²
3	red	0.35mm ²
4	black	0.35mm ²

All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to RN_079-01

Documents

Assembly instruction MA_HV0010

Material and plating

Material

Housing
Outer Contact
Center Contact
Insulator
Seal
Bushing
HVIL-connector

Plating/Colour

PA12 black
Brass Ag, min. 0,5 µm
Copper Ag, min. 3 µm
PBT-GF30 natural
Silicon red
Brass Ni, min. 3 µm
Spring bronze Ag, min 1 µm

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Cable

Power cable Hivocar-200-SU-2,5
 HVIL-cable FLRX 0,35-A /150T

Mechanical data

Mating cycles ≥ 50
 Engagement force ≤ 100 N
 Disengagement force ≤ 50 N
 Retention force latch ≥ 500 N
 Coding efficiency ≥ 300 N
 IP code mated IP6K9K/ IPX8/ IPXXD
 IP code unmated IPXXB

Preliminary

Electrical data

Insulation resistance > 200 MΩ by 1075 V_DC
 Voltage class B
 60 VDC < U ≤ 1500 V_DC
 25 VAC < U ≤ 1000 V_AC
 Contact resistance (Current) ≤ 1,36 mΩ
 Contact resistance (EMV) ≤ 10mΩ
 Test voltage 2700 V_DC
 Working voltage 750 V_DC
 Ampacity TBD
According to wire cross section
 EMI (shielding effectiveness) 70 dB (10 kHz - 5 MHz)
 65 dB (5 MHz - 500 MHz)
 High Voltage Interlock (HVIL) Yes
 Power pins min. 1mm advanced

Environmental data

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

Application

Applicable e.g. for following connectors: HVK102-12A00XB1-Y, HVK201-12A00XB1-Y

Packing





Standard 5 pcs. In bag
 Weight TBD

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Coding

Part Number has to be accomplished by codification

Coding	Plug	Colour	RAL	Part-Number
A		black	sim. 9005	HVL102-5A-001B1-A
B		black	sim. 9005	HVL102-5A-001B1-B
C		black	sim. 9005	HVL102-5A-001B1-C
D		black	sim. 9005	HVL102-5A-001B1-D

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
R. Hochheim	22.03.13	S. Rutz	15.06.16	400	16-0929	A. Böhm	15.06.16