

pinning	colour	cable
1	red	4mm <sup>2</sup>
2	black	4mm <sup>2</sup>
3	red	0.35mm <sup>2</sup>
4	black	0.35mm <sup>2</sup>

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**

**Connector parts**

Connector parts	Material	Plating/Colour
Housing	PA12	black
Outer Contact	Brass	Ag, min. 0,5 µm
Center Contact	Copper	Ag, min. 3 µm
Insulator	PBT-GF30	black
Seal	Silicon	red
Bushing	Brass	Ni, min. 3 µm
HVIL-connector	Spring bronze	Ag, min. 1 µm

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**Cable**

Power cable Hivocar-200-SU-6,0  
 HVIL-cable FLRX 0,35-A /150T

**Mechanical data**

Mating cycles  $\geq 50$   
 Engagement force  $\leq 100$  N  
 Disengagement force  $\leq 50$  N  
 Retention force latch  $\geq 500$  N  
 Coding efficiency  $\geq 280$  N  
 IP code mated IP6K9K/ IPX8/ IPXXD  
 IP code unmated IPXXB

**Electrical data**

Insulation resistance  $> 200M\Omega$  at 1000VDC  
 Voltage class 2B  
 Contact resistance (Current)  $\leq 1,36$  m $\Omega$   
 Contact resistance (EMV)  $\leq 10$ m $\Omega$   
 Test voltage 2700 VDC  
 Working voltage 750 VDC  
 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**




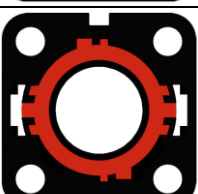
Standard plastic bag  
 Weight 60 g/pce

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**Coding**

Part Number has to be accomplished by codification

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

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