

All dimensions are in mm; tolerances according to ISO 2768 m-H
Y = Part number has to be accomplished by codification

Interface

According to RN_111-01

Documents

Assembly instruction TBD

Preliminary

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RF_35/09_14/6.2

Material and plating

Connector parts

Shielding
Shielding Contact Element
Inner Conductor
Contact Element
HVIL Contact
Supporting Sleeve
Crimping Ferrule
Crimping Sleeve
Insulator I
Insulator II
Housing
Slider
Ring
Seal
Cable Seal
End Cap

Material

Steel
Spring Bronze
Cu
Cu
Spring Bronze
Brass
Brass
Brass
PA10T/X GF30
PA10T/X GF30
PBT GF30
PBT GF30
PA12 GF30
Silicone
Silicone
PBT GF30

Plating / Colour

Sn, min. 2 µm (partial)
Ag, min. 0.5 µm
Ag, min. 3 µm, Sn, min. 3 µm
Ag, min. 3 µm
Ag, min. 0.5 µm
Ni, min. 3 µm

black, RAL 9005
black, RAL 9005
orange, RAL 2003
see coding table
black, RAL 9005
green, RAL 6032
black, RAL 9011
orange, RAL 2003

Electrical data

Insulation resistance ≥ 200 MΩ at 1000 V DC
Voltage class B
60 V DC < U ≤ 1500 V DC
25 V AC < U ≤ 1000 V AC

Contact resistance (Current) ≤ 1.36 mΩ
Contact resistance (EMC) ≤ 10 mΩ
Test voltage 2700 VDC
Working voltage 1000 VDC
Ampacity tbd
acc. to DIN EN 60512-5-2, free in air
EMI (transfer impedance) < 10 mΩ/m (2 MHz)
acc. to LV215-2_2013-02 < 50 mΩ/m (30 MHz)
High Voltage Interlock (HVIL) Yes
Power pins min. 1mm advanced

Mechanical data

Mating cycles ≥ 50
Engagement force ≤ tbd N
Coding efficiency ≥ 300 N
Cable connection angle 180°
IP code mated IP6K9K/ IPX8/ IPXXD
IP code unmated IPXXB
Vibration class LV215 PG17-II

Environmental data

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

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RF_35/09_14/6.2

HVR50

Angled
Waterproof Jack

H6K107-12A006B1-Y

Suitable cable

Cable type 2x6.0 mm² single shielded (sim. LV-216-2)
Validated cables tbd

Tooling

Crimping tool see MA_HV0096

Packing

Standard for packaging see data sheets of piece parts
Weight 83,3g

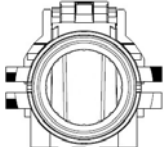
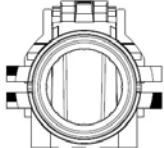
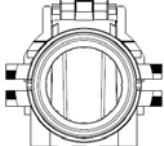
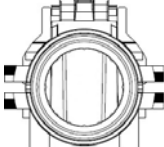
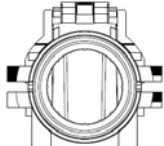
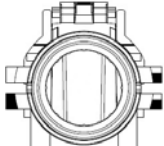
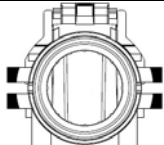
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RF_35/09.14/6.2

Coding

Part Number has to be accomplished by codification

Coding	Plug	Housing Colour / RAL	Slider Colour / RAL	Part-Number
A		orange / sim. 2003	black / sim. 9005	H6K107-12A006B1-A
B		orange / sim. 2003	white / sim. 9010	H6K107-12A006B1-B
C		orange / sim. 2003	blue / sim. 5012	H6K107-12A006B1-C
D		orange / sim. 2003	violet / sim. 4004	H6K107-12A006B1-D
E		orange / sim. 2003	green / sim. 6017	H6K107-12A006B1-E
F		orange / sim. 2003	brown / sim. 8011	H6K107-12A006B1-F
Z		orange / sim. 2003	waterblue / sim. 5021	H6K107-12A006B1-Z

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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	21.09.18	G. Höfelmeier	21.09.18	100	18-m644	R. Hochheim	21.09.18