

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

Documents

Assembly instruction 70B5

Material and plating

Connector parts

- Outer contact
- Dielectric
- Insert
- Body
- Gasket
- Cap nut

Material

- ZnAl4Cu1
- PA66/6T
- CuBe
- PA
- Silicone
- PA

Plating

- Tin
- Silver over nickel

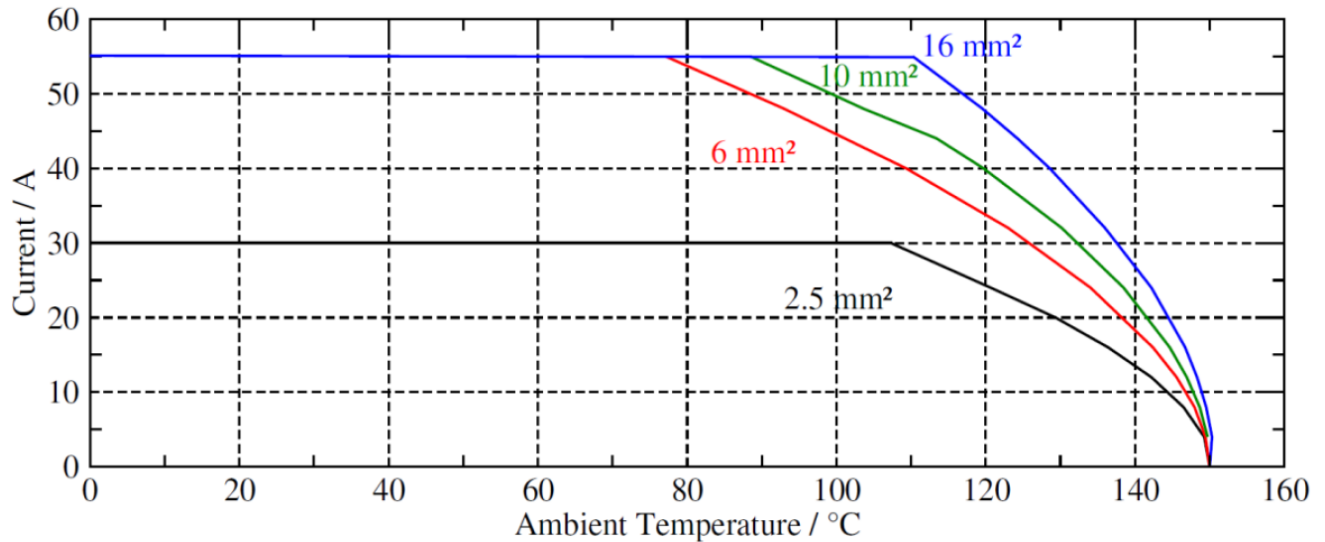
Multi-Power

EMI shielded
2-way cable plug

7F2RS106B-0M16T1

Electrical data

Contact resistance $\leq 4 \text{ m}\Omega$ @ insert
 $\leq 1 \text{ m}\Omega$ @ outer contact
 Working voltage $\leq 60\text{V DC}$
 Test voltage $\leq 300\text{V DC}$
 Contact current (acc. to chart)



- Test according to IEC 60512-5-2, samples free in air, connected with 2.5, 6, 10 and 16mm² cables. Limitations possible due to different test conditions -

Mechanical data

Mating cycles ≥ 100
 Mating force $\leq 150\text{N}$
 Un-mating force $\leq 150\text{N}$
 Coupling torque 0.3Nm to 1Nm
 Interface retention force $\geq 200\text{N}$
 Pin -48V Hot contact
 Pin RTN 0V – Return
 Grounding Standard Common DC return (DC-C)

Environmental data

Temperature range -40°C to +85°C
 Climatic test IEC 60068-2-38 (-40°C / +85°C, 5-90 % rel. humidity)
 Corrosion resistance EIA-364-65B, Class IIIA
 Vibration IEC 60068-2-6
 Moisture resistance IEC 60068-2-78
 Degree of protection (mated pair) IEC 60529, IP67
 Flammability class UL94 V0
 RoHS compliant

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Technical Data Sheet

Rosenberger

Multi-
Power

EMI shielded
2-way cable plug

7F2RS106B-0M16T1

Cable

Cable outer diameter $\varnothing 7 - 21.5\text{mm}$
 $\varnothing 0.28'' - 0.84''$

Copper wire gauge $2.5\text{mm}^2 - 16\text{mm}^2$
 AWG 6 - 12

Weight

Weight 125 g/pce

Power supply to pins must be deactivated unless they are completely plugged in. Misuse may damage contact. Rosenberger declines all liabilities to cross-compatibility to other competitors' connectors.

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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
J. Fuchs	15.11.2019	J. Fuchs	09.06.2022	b00	22-1041	J_Krautenbach	08.06.2022

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