



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

Interface

According to IEC 61169-54

Documents

Assembly instruction 60 I38

Material and plating

Connector parts

Center contact	Brass
Outer contact	Brass
Body	Brass
Dielectric	PTFE
Gasket	Silicone

Plating

Silver, 3-6 µm
 Flash white bronze over silver(e.g. Optargen®)
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RF_35/05.10/6.0

Electrical data

Impedance	50 Ω
Frequency	DC to 12 GHz
Return loss	≥ 36 dB @ DC to 4 GHz ≥ 32 dB @ 4 GHz to 6 GHz
Insertion loss	≤ 0.05 x √ f [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1.0 mΩ
Outer contact resistance	≤ 1.0 mΩ
Test voltage	2500 V rms
Working voltage	500 V rms
RF-leakage	≥ 110 dB @ DC to 6 GHz
Power handling (at 90 °C, altitude 3000m)	500 W @ 2.0 GHz
Intermodulation (3 rd order)	≥ 160 dBc (2 x 46 dBm) @ 0.4 – 4.0 GHz ≥ 166 dBc (2 x 43 dBm) @ 0.4 – 4.0 GHz

- Limitations are possible due to the used cable type –
-RL value only valid for the interface-

Mechanical data

Mating cycles	≥ 100
Center contact captivation: axial	> 30 N
radial	> 5 Ncm
Center contact retention force	1.5 - 20 N
Outer contact retention force	4 - 35 N
Recommended torque	5 Nm

Environmental data

Temperature range	-55 °C to +90 °C operating temperature
Thermal shock	IEC 60169-1, Sub-clause 16.4
Corrosion resistance	ISO 21207 method B
Vibration	IEC 61169-1 9.3.3 and IEC 60068-2-64
Shock	IEC 61169-1 9.3.14
Degree of protection (mated pair)	IEC 60529, IP68 1h / 25m
RoHS	compliant

Tooling

N/A

Suitable cables

Flexline 1/2"S and similar

Weight

Weight 74.5g/pce

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.

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F. Fraunhofer	15.07.2013	F.Fraunhofer	11.01.16	300	15-v581	C_Vitzthum	11.01.16
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