



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

**Interface**

Compatible to IEC 60169-8, MIL-PRF-39012, CECC 22120

**Documents**

Assembly instruction 51 E

**Material and plating**

**Connector parts**

Connector parts	Material	Plating
Center contact	Brass	Gold, min. 0.8 $\mu\text{m}$ , over nickel
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Body	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PTFE	
Gasket	NeopreneCR 50C6	
Gasket	Silicone	

**Electrical data**

Impedance	75 Ω
Frequency	DC to 4 GHz
Return loss	≥ 28 dB, DC to 1 GHz ≥ 20 dB, 1 to 2 GHz ≥ 18 dB, 2 to 3 GHz
Insertion loss	≤ 0.05 x √ f [GHz] dB
Insulation resistance	≥ 5 x10 <sup>3</sup> MΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 1 mΩ
Test voltage	1500 V rms
Working voltage	400 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 80 W @ 2 GHz

- Limitations are possible due to the used cable type -

**Mechanical data**

Mating cycles	min. 500
Center contact captivation: axial	≥ 15 N

**Environmental data**

Temperature range	-65°C to +165°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. G
Moisture resistance 2002/95/EC (RoHS)	MIL-STD-202, Meth. 106 compliant

**Tooling**

N/A

**Suitable cables**

RG 179 B/U, RG 187 A/U

**Packing**

Standard	1 pce in bag
Weight	18.7 g/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.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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