



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

**Interface**

According to IEC 61169-16, MIL-PRF-39012, CECC 22210

**Documents**

Assembly instruction 53 T1

**Material and Plating**

**Connector parts**

	<b>Material</b>	<b>Plating</b>
Center contact	Brass	AuroDur®, gold plated
Outer contact	Brass	Silver, 3-6 µm
Body	Brass	Silver, 3-6 µm
Dielectric	PTFE	
Gasket	Silicone	

**Electrical Data**

Impedance	50 Ω
Frequency	DC to 11 GHz
Return loss	≥ 35 dB, DC to 2 GHz ≥ 30 dB, 2 to 5 GHz ≥ 25 dB, 5 to 8 GHz ≥ 18 dB, 8 to 11 GHz
Insertion loss	≤ 0.05 dB
Insulation resistance	≥ 5 x10 <sup>3</sup> MΩ
Center contact resistance	≤ 1 mΩ
Outer contact resistance	≤ 0.25 mΩ
Working voltage	500 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz 700 W @ 2 GHz
RF-leakage	≥ 128 dB up to 1 GHz

- Limitations are possible due to the used cable type -

**Mechanical Data**

Mating cycles	min. 500
Coupling nut retention	≥ 450 N
Coupling test torque	max. 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm

**Environmental Data**

Temperature range	-55°C to +155°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. I
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

**Tooling**

N/A

**Suitable Cables**

RG 401/U, UT 250, Flexiform 401

**Weight**

Weight 33.1 g/pc

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
Inge Mühlauer	08.06.04	F. Fraunhofer	25.06.15	g00	15-0759	B. Wollitzer	25.06.15
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