



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

**Interface**

According to DIN EN 61169-8

**Documents**

Assembly instruction 51 E

**Material and plating**

**Connector parts**

Center contact	Material	Brass	Plating	AuroDur®, gold plated
Outer contact	Material	Brass	Plating	Flash white bronze over silver(e.g. Optargen®)
Body	Material	Brass	Plating	Flash white bronze over silver(e.g. Optargen®)
Dielectric	Material	PTFE		
Gasket	Material	NeopreneCR 50C6		
Gasket	Material	Silicone		

**Electrical data**

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 25 dB, DC to 1 GHz ≥ 20 dB, 1 to 2 GHz ≥ 15 dB, 2 to 4 GHz
Insertion loss	≤ 0.05 x √ f [GHz] dB, DC to 4 GHz
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	≥ 500
Center contact captivation: axial	≥ 15 N

**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. G
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

**Tooling**

N/A

**Suitable cables**

RG 316 /U, RG 174 A/U, RG 188 A/U

**Weight**

Weight 18.6 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.

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



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Inge Mühlauer	20.07.04	Chr. Janßen	17.12.20	f00	20-1927	S. Huber-Siegl	17.12.20