



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

**Interface**

According to	4.1-9.5 side:	IEC 60169-11, DIN 47231
	N side:	IEC 61169-16, MIL-PRF-39012, CECC 22210

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact	<b>Material</b>	CuBe
Outer contact		Brass
Dielectric		PTFE
Gasket		Silicone

**Plating**

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

**Electrical data**

Impedance	50 Ω
Frequency	DC to 14 GHz
Return loss	≥ 35 dB @ DC to 2.7 GHz ≥ 32 dB @ 2.7 GHz to 4 GHz ≥ 30 dB @ 4 GHz to 6 GHz
Insertion loss	≤ 0.1 x √f [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1 mΩ
Outer contact resistance	≤ 0.25 mΩ
Test voltage (at sea level)	2500 V rms
Working voltage (at sea level)	500 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz 700 W @ 2 GHz
RF-leakage	≥ 114 dB @ DC to 1 GHz
Intermodulation (3 <sup>rd</sup> order)	≥ 155 dBc (2 x 43 dBm)

**Mechanical data**

Mating cycles	≥ 500
Coupling nut retention	≥ 500 N
Center contact captivation: axial	≥ 80 N
Coupling torque (recommended)	4.1-9.5 10 Nm N 0.7 Nm to 1.1 Nm
Proof torque	4.1-9.5 15 Nm N 1.7 Nm

**Environmental data**

Temperature range	-40 °C to +85 °C
Climatic category	IEC 60068-1 (40/85/21)
Dry Heat	IEC 60169-1, Sub-clause 16.2.1
Damp Heat (steady state)	IEC 60169-1, Sub-clause 16.2.2
Cold	IEC 60169-1, Sub-clause 16.2.3
Rapid change of temperature	IEC 60169-1, Sub-clause 16.4
Corrosion resistance	IEC 60169-1, Sub-clause 16.7
Vibration	IEC 60169-1, Sub-clause 15.2.2
Degree of protection (mated pair)	IEC 60529, IP68 2.5 bar 1 h
RoHS	compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

Weight 46.15 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
M. Wimmer	22.08.13	Chr. Janßen	08.03.21	b00	20-1927	S. Huber-Siegl	08.03.21