



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

**Interface**

According to

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

**Documents**

B 12

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Body  
Dielectric

**Material**

Spring bronze  
Brass  
Brass  
PTFE

**Plating**

AuroDur®, gold plated  
Flash white bronze over silver(e.g. Optargen®)  
Flash white bronze over silver(e.g. Optargen®)

**Electrical data**

Impedance	50 Ω
Frequency	DC to 11 GHz
Return loss	≥ 32 dB, DC to 2 GHz ≥ 25 dB, 2 to 4 GHz ≥ 22 dB, 4 to 9 GHz
Insertion loss	≤ 0.05 dB, DC to 9 GHz
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
Intermodulation (3 <sup>rd</sup> order)	≤ -115 dBm @ 2 x 20 W

**Mechanical data**

Mating cycles	min. 500
Center contact captivation: axial	≥ 28 N
Coupling test torque	max. 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm

**Environmental data**

Temperature range	-45°C to +85°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
Degree of protection (mated pair)	IEC 60529, IP67
RoHS	compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

Weight	46.6 g/pce
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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	22/06/04	J_Gramsamer	15.04.15	h00	15-0397	J_Krautenb.	15.04.15
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