



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

**Interface**

According to N side: IEC 60169-16, MIL-PRF-39012, CECC 22210  
SMA side: IEC 60169-15; EN 122110; MIL-STD-348A, Fig. 310

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact N side  
Outer contact SMA side  
Dielectric  
Gasket

**Material**

Beryllium copper  
Brass  
Stainless steel  
PTFE  
Silicone

**Plating**

Gold, min. 1.27 µm, over nickel  
Nickel, 2.5-5 µm  
Gold, min. 0.8 µm, over nickel

**ADAPTOR  
N 50 Ω PLUG – SMA JACK**

www.pewtronic.cz  
**PLU010582**

**Electrical data**

Impedance	50 Ω	
Frequency	DC to 12 GHz	
Return loss	≥ 40 dB, DC to 2 GHz	
	≥ 35 dB, 2 to 5 GHz	
	≥ 25 dB, 5 to 12 GHz	
Insertion loss	≤ 0.05 dB	
Insulation resistance	≥ 5 x10 <sup>3</sup> MΩ	
Center contact resistance	≤ 1 mΩ, N side	≤ 3 mΩ, SMA side
Outer contact resistance	≤ 0.25 mΩ, N side	≤ 2 mΩ, SMA side
Test voltage	1000 V rms	
Working voltage	480 V rms	
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2 GHz	
RF-leakage	≥ 100 dB up to 1 GHz	

**Mechanical data**

	N side	SMA side
Mating cycles	min. 500	min. 500
Coupling nut retention	≥ 450 N	N/A
Center contact captivation: axial	≥ 28 N	≥ 28 N
Coupling test torque	max. 1.7 Nm	max. 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm	0.8 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. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106

**Tooling**

N/A

**Suitable cables**

N/A

**Packing**

Standard	1 pce in bag
Weight	26.7 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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