



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

**Interface**

According to BNC side: IEC 60169-8, MIL-PRF-39012, CECC 22120  
N side: IEC 60169-16, MIL-PRF-39012, CECC 22210

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact BNC and N side  
Outer contact BNC and N side  
Body  
Dielectric  
Gasket

**Material**

Brass  
Brass  
Brass  
PTFE  
Silicone

**Plating**

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

**ADAPTOR  
BNC 50 Ω PLUG - N 50 Ω PLUG**

**51S153-S00N5**

**Electrical data**

Impedance	50 Ω	
Frequency	DC to 10 GHz	
Return loss	≥ 35 dB, DC to 2.5 GHz	
	≥ 25 dB, 2.5 to 4 GHz	
Insertion loss	≤ 0.05 x √ f [GHz] dB	
Insulation resistance	≥ 5 x10 <sup>3</sup> MΩ	
Center contact resistance	≤ 1.5 mΩ, BNC side;	≤ 1 mΩ, N side
Outer contact resistance	≤ 1 mΩ, BNC side;	≤ 0.25 mΩ, N side
Test voltage	1500 V rms	
Working voltage	400 V rms	
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 80 W @ 2 GHz	

**Mechanical data**

	BNC side	N side
Mating cycles	min. 500	min. 500
Coupling nut retention	N/A	≥ 450 N
Center contact captivation: axial	≥ 28 N	≥ 28 N
Coupling test torque	N/A	max. 1.7 Nm
Recommended torque	N/A	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. G
Moisture resistance	MIL-STD-202, Meth. 106
2002/95/EC (RoHS)	compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Packing**

Standard	1 pce in bag
Weight	44.9 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
Chr. Entsfellner	17/07/08	J. Krautenbacher	17/07/08	d00	07-0154	S. Huber-Siegl	17/07/08
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