



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  
 BNC side: IEC 60169-8, MIL-PRF-39012, CECC 22120

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
 Outer contact N side  
 Outer contact BNC side  
 Dielectric  
 Gasket  
 Coupling nut

**Material**

CuBe  
 Brass  
 Brass  
 PTFE  
 Silicone  
 Brass

**Plating**

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

**ADAPTOR  
N 50 Ω PLUG – BNC JACK**

**53S151-K00N5**

**Electrical data**

Impedance	50 Ω	
Frequency	DC to 10 GHz	
Return loss	≥ 25 dB, DC to 1 GHz	
	≥ 20 dB, 1 to 4 GHz	
	≥ 18 dB, 4 to 10 GHz	
Insertion loss	≤ 0.1 dB	
Insulation resistance	≥ 5 x10 <sup>3</sup> MΩ	
Center contact resistance	≤ 1 mΩ, N side	≤ 1.5 mΩ, BNC side
Outer contact resistance	≤ 0.25 mΩ, N side	≤ 1 mΩ, BNC side
Working voltage	400 V rms	
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 80 W @ 2 GHz	

**Mechanical data**

	N side	BNC 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	N/A
Recommended torque	0.7 Nm to 1.1 Nm	N/A

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

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

Weight 35.8 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
Inge Mühlauer	08/06/04	J_Gramsamer	20.04.15	f00	15-0397	J_Krautenb.	20.04.15
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>					Tel.: +49 8684 18-0 email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>		Page 2 / 2