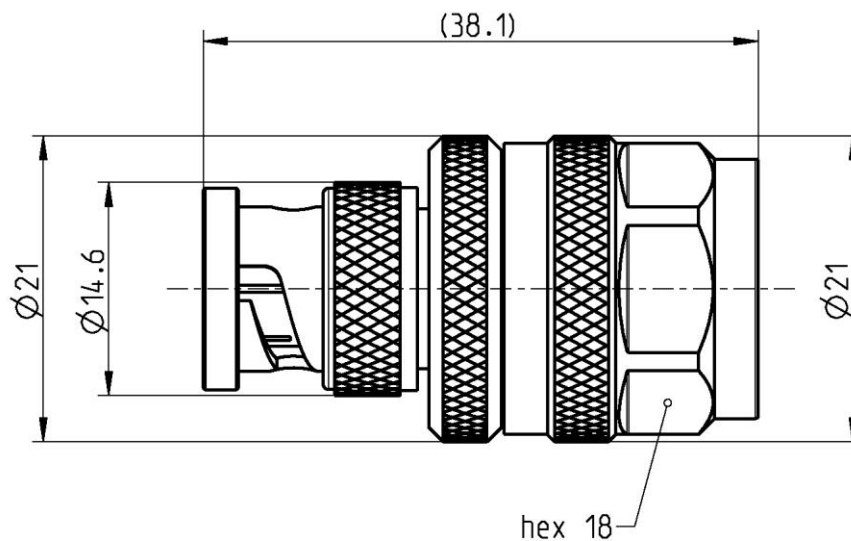


Technical Data Sheet

Rosenberger

BNC 50 Ω Adaptor
 BNC 50 Ω Plug –
 N 50 Ω Plug

51S153-S00N5



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

Interface

According to	BNC side:	DIN EN 61169-8
	N side:	IEC 61169-16, 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®)

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RFB00035/12.20/6.4

Technical Data Sheet

Rosenberger

BNC 50 Ω 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 ³ 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

Mating cycles	BNC side min. 500	N side min. 500
Coupling nut retention	N/A	≥ 450 N
Center contact captivation: axial	≥ 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
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Chr. Entsfellner	17.07.08	Chr. Janßen	21.12.20	f00	20-1927	S. Huber-Siegl	21.12.20
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