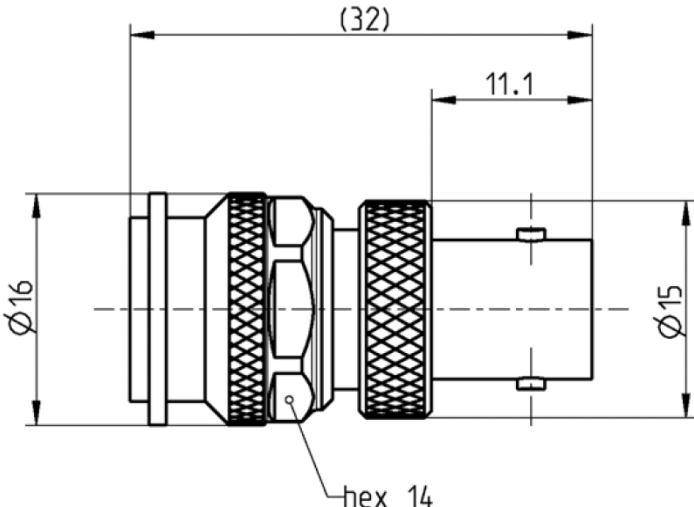


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RF_35/08.13/6.1

Technical Data Sheet		Rosenberger	
ADAPTOR TNC 50Ω Plug - BNC 50Ω Jack		56S151-K00N5	
 			
All dimensions are in mm; tolerances according to ISO 2768 m-H			
Interface			
According to	BNC side	IEC 61169-8, MIL-PRF-39012, CECC 22120	
	TNC side	IEC 60169-17, MIL-PRF-39012, DIN EN 122200	
Documents			
		N/A	
Material and plating			
Connector parts		Material	Plating
Center contact BNC and TNC side		CuBe	AuroDur®, gold plated
Outer contact BNC and TNC side		Brass	Flash white bronze over silver(e.g. Optargen®)
Body		Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric		PTFE	
Gasket		NeopreneCR 50C6	
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de		Tel. : +49 8684 18-0 Fax : +49 8684 18-499 Email : info@rosenberger.de	
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Technical Data Sheet				Rosenberger			
ADAPTOR TNC 50Ω Plug - BNC 50Ω Jack				56S151-K00N5			
Electrical data							
Impedance		50 Ω					
Frequency		DC to 10 GHz					
Return loss		≥ 35 dB @ DC to 1 GHz					
		≥ 26 dB @ 1 GHz to 2 GHz					
		≥ 18 dB @ 2 GHz to 4 GHz					
Insertion loss		≤ 0.05 x √ f [GHz] dB, DC to 4 GHz					
Insulation resistance		≥ 5 GΩ					
Center contact resistance		≤ 1.5 mΩ BNC and TNC side					
Outer contact resistance		≤ 1 mΩ BNC and TNC side					
Test voltage (at sea level)		1500 V rms					
Working voltage (at sea level)		500 V rms					
Power handling (at 20 °C, sea level, VSWR 1.0)		80 W @ 2 GHz					
Mechanical data							
		BNC side		TNC side			
Mating cycles		≥ 500		≥ 500			
Center contact captivation: axial		≥ 15 N		≥ 15 N			
Coupling test torque		N/A		≤ 1.7 Nm			
Recommended torque		N/A		0.46 Nm to 0.69 Nm			
Environmental data							
Temperature range		-65 °C to +165 °C					
Thermal shock		MIL-STD-202, Method 107, Condition B					
Corrosion		MIL-STD-202, Method 101, Condition B					
Vibration		MIL-STD-202, Method 204, Condition B					
Shock		MIL-STD-202, Method 213, Condition G					
Moisture resistance		MIL-STD-202, Method 106					
RoHS		compliant					
Tooling							
		N/A					
Suitable cables							
		N/A					
Weight							
Weight		22.6 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	10.08.04	Sa. Krautenbacher	20.03.14	f00	14-0352	T. Krojer	20.03.14
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