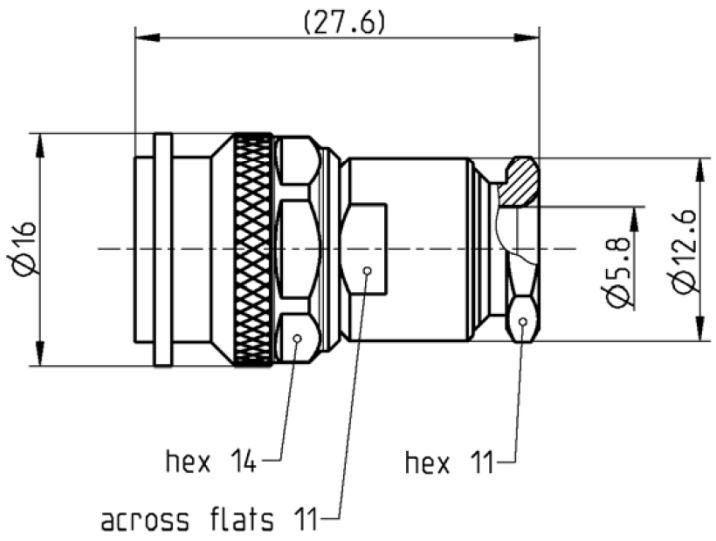


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RF_35/08.13/6.1

Technical Data Sheet		Rosenberger
TNC 50 Ω	STRAIGHT PLUG	56S106-006N5
 All dimensions are in mm; tolerances according to ISO 2768 m-H Interface According to IEC 60169-17, MIL-PRF-39012, DIN EN 122200 Documents Assembly instruction 51 E Material and plating Connector parts Center contact Outer contact Body Dielectric Gasket Gasket Material Brass Brass Brass PTFE NeopreneCR 50C6 Silicone Plating AuroDur®, gold plated Flash white bronze over silver(e.g. Optargen®) Flash white bronze over silver(e.g. Optargen®)		
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			
TNC 50 Ω		STRAIGHT PLUG		56S106-006N5			
Electrical data							
Impedance		50 Ω					
Frequency		DC to 10 GHz					
Return loss		≥ 35 dB @ DC to 2 GHz					
		≥ 28 dB @ 2 GHz to 3 GHz					
		≥ 20 dB @ 3 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					
Outer contact resistance		≤ 1 mΩ					
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					
- Limitations are possible due to the used cable type –							
Mechanical data							
Mating cycles		≥ 500					
Center contact captivation: axial		≥ 15 N					
Coupling test torque		≤ 1.7 Nm					
Recommended torque		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					
Degree of protection (mated pair)		IEC 60529, IP 63					
RoHS		compliant					
Tooling							
		N/A					
Suitable cables							
		RG 58 C/U, RG 141 /U					
Weight							
Weight		20.2 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	d00	14-0352	T. Krojer	20.03.14
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