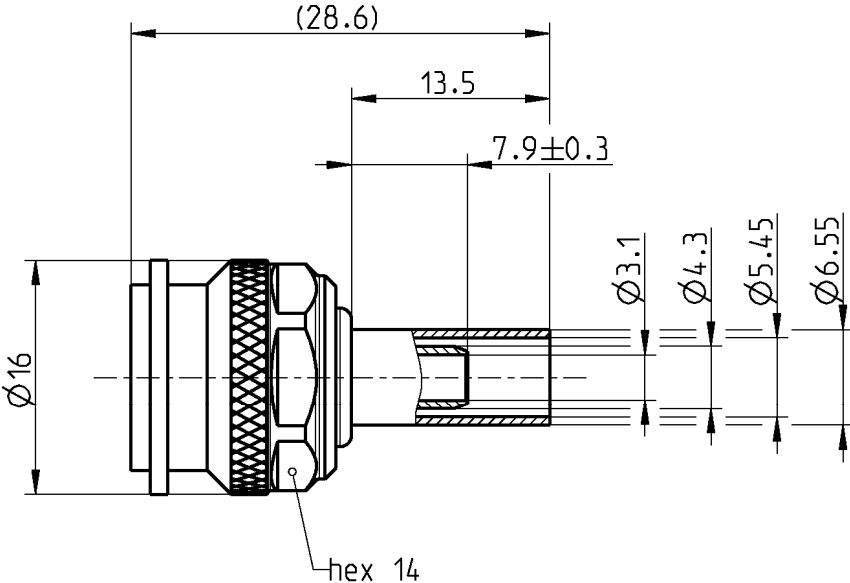


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RF_35/08.13/6.1

Technical Data Sheet		Rosenberger
TNC 50 Ω	STRAIGHT PLUG	56S107-106N5
		
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 P10
Material and plating		
Connector parts		
Center contact	Material	Plating
Outer contact	Brass	AuroDur®, gold plated
Body	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	Brass	Flash white bronze over silver(e.g. Optargen®)
Gasket	PTFE	
Crimping ferrule	NeopreneCR 50C6	
	Copper	Flash white bronze over silver(e.g. Optargen®)
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Technical Data Sheet				Rosenberger			
TNC 50 Ω		STRAIGHT PLUG		56S107-106N5			
Electrical data							
Impedance		50 Ω					
Frequency		DC to 10 GHz					
Return loss		≥ 30 dB @ DC to 2.5 GHz					
		≥ 20 dB @ 2.5 GHz to 4 GHz					
		≥ 18 dB @ 4 GHz to 6 GHz					
Insertion loss		≤ 0.05 x √ f [GHz] dB					
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					
RoHS		compliant					
Tooling							
Crimping tool		11W150-000					
Crimp insert		11W150-208					
Suitable cables							
RG 58 C/U, RG 141 /U							
Weight							
Weight		13.9 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
Inge Mühlauer	10.08.04	Sa. Krautenbacher	20.03.14	f00	14-0352	T. Krojer	20.03.14
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