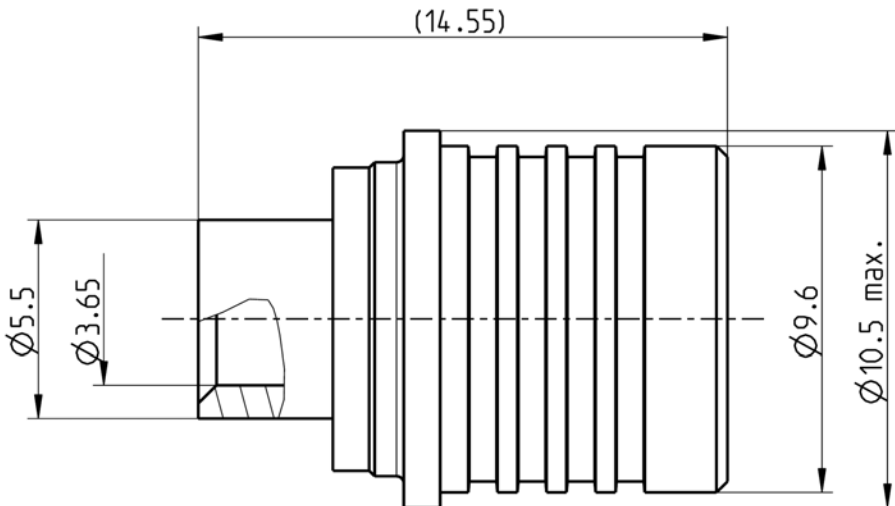


TECHNICAL DATA SHEET		Rosenberger	
QMA STRAIGHT PLUG		28S101-272N	
 All dimensions are in mm; tolerances according to ISO 2768 m-H			
Interface			
According to		Rosenberger 28S000-000, series QMA Rosenberger is an authorised QLF® manufacturer	
Documents			
Assembly instruction		28 A3	
Material and plating			
Connector parts		Material	Plating
Outer contact		Spring bronze	White bronze(e.g. Optalloy®)
Body		Brass	Flash white bronze over silver(e.g. Optargen®)
Unlocking sleeve		Brass	White bronze(e.g. Optalloy®)
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	
		Page 1 / 2	

TECHNICAL DATA SHEET				Rosenberger			
QMA STRAIGHT PLUG				28S101-272N			
Electrical data							
Impedance		50 Ω					
Frequency		DC to 18 GHz					
Return loss		≥ 32 dB, DC to 3 GHz					
		≥ 25 dB, 3 to 6 GHz					
Insertion loss		≤ 0.05 x √f(GHz) dB, DC to 6 GHz					
Insulation resistance		≥ 5 x10 ³ MΩ					
Center contact resistance		≤ 3 mΩ					
Outer contact resistance		≤ 2.5 mΩ					
Test voltage, at sea level, 50Hz		1000 V rms					
Working voltage, at sea level, 50Hz		335 V rms					
RF-leakage		≥ 95 dB up to 2 GHz					
		≥ 80 dB up to 4 GHz					
		≥ 70 dB up to 6 GHz					
Intermodulation (3 rd order)		≤ -130 dBc @ 2 x 20 W					
<i>- Limitations are possible due to the used cable type -</i>							
Mechanical data							
Mating cycles		min. 100					
Center contact captivation: axial		≥ 20 N					
Engagement force		typ. 25 N					
Disengagement force		typ. 20 N					
Retention force for interface		60 N min.					
Environmental data							
Temperature range		-40°C to +85°C					
Storage temperature		-40°C to +85°C					
Thermal shock		IEC 60169-1 16.4 (-40 /+85°C)					
Corrosion		IEC 60169-1 16.7 (48 hrs)					
Vibration		IEC 60068-2-64 random					
Damp heat, steady state		IEC 60169-1 16.3 (96 hrs)					
RoHS		compliant					
Tooling							
		N/A					
Suitable cables							
		UT 141, RG 402					
Weight							
Weight		4.10 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
M. Schmid	07/07/08	Sa. Krautenbacher	13.03.14	b00	14-0352	T. Krojer	13.03.14
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