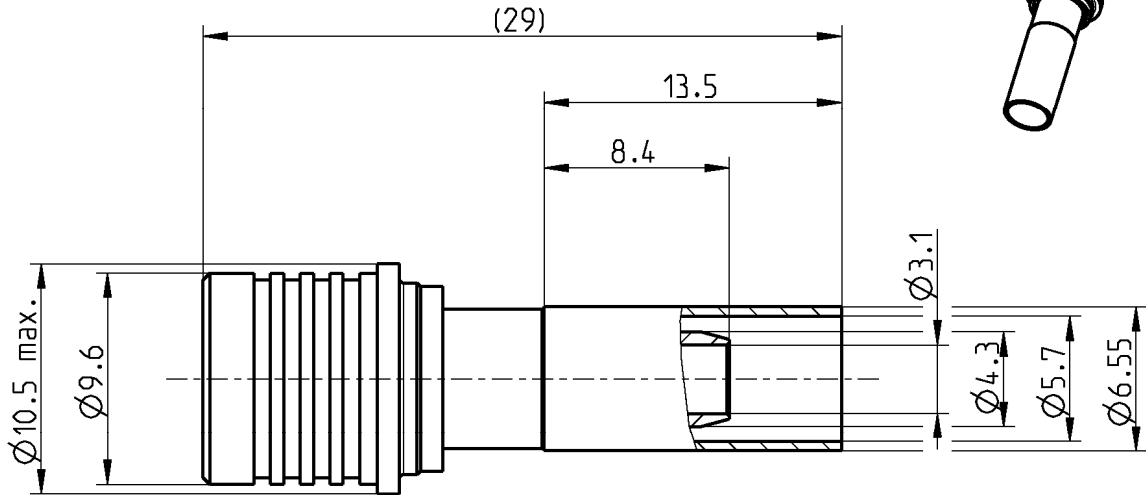


RF_35/11.05/3.1
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TECHNICAL DATA SHEET		Rosenberger	
QMA STRAIGHT PLUG		28S107-307N5	
			
All dimensions are in mm; tolerances according to ISO 2768 m-H			
Interface		According to	
		Rosenberger 28S000-000, series QMA Rosenberger is an authorised QLF® manufacturer	
Documents		Assembly instruction	
		28 D1	
Material and plating			
Connector parts		Material	Plating
Center contact		Brass	AuroDur, gold plated
Outer contact		Spring bronze	White bronze(e.g. Optalloy®)
Body		Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric		PTFE	
Unlocking sleeve		Brass	White bronze(e.g. Optalloy®)
Crimping ferrule		Copper	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			
QMA STRAIGHT PLUG				28S107-307N5			
Electrical data							
Impedance		50 Ω					
Frequency		DC to 18 GHz					
Return loss		≥ 29 dB, DC to 3 GHz					
		≥ 25 dB, 3 to 4 GHz					
		≥ 23 dB, 4 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		480 V rms					
RF-leakage		≥ 95 dB up to 2 GHz					
		≥ 80 dB up to 4 GHz					
		≥ 70 dB up to 6 GHz					
<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							
Crimping tool		11W150-000					
Crimp insert		11W150-108					
Suitable cables							
		RG 142 B/U, RG 223 /U, RG 400 /U					
Weight							
Weight		6.0 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	05/10/04	Sa. K.	13.03.14	g00	14-0352	T. Krojer	13.03.14
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