



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 28B4

**Material and plating**

**Connector parts**

- Center contact
- Outer contact
- Body
- Dielectric
- Unlocking sleeve
- Crimping ferrule
- Gasket
- Heat shrinkable tubing

**Material**

- Brass
- Spring bronze
- Brass
- PTFE
- Brass
- Copper
- Silicone
- Polyolefin

**Plating**

- AuroDur®, gold plated
- White bronze(e.g. Optalloy®)
- Flash white bronze over silver(e.g. Optargen®)
- White bronze(e.g. Optalloy®)
- Flash white bronze over silver(e.g. Optargen®)

**Electrical data**

Impedance	50 $\Omega$
Frequency	DC to 18 GHz
Return loss	$\geq 26$ dB, DC to 3 GHz $\geq 24$ dB, 3 to 4 GHz $\geq 18$ dB, 4 to 6 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f(\text{GHz})}$ dB, DC to 6 GHz
Insulation resistance	$\geq 5 \times 10^3$ M $\Omega$
Center contact resistance	$\leq 3$ m $\Omega$
Outer contact resistance	$\leq 2.5$ m $\Omega$
Test voltage, at sea level, 50Hz	1000 V rms
Working voltage, at sea level, 50Hz	335 V rms
RF-leakage	$\geq 95$ dB up to 2 GHz $\geq 80$ dB up to 4 GHz $\geq 70$ dB up to 6 GHz

- Limitations are possible due to the used cable type -

**Mechanical data**

Mating cycles	min. 100
Center contact captivation: axial	$\geq 20$ 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
Degree of protection	IP 68, mated condition

**Tooling**

Crimping tool	11W150-000
Crimp insert	11W150-102

**Suitable cables**

RG 316 /U-d, K02252d

**Weight**

Weight	6.4 g/pce
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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
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