



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 C1

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Body  
Dielectric  
Unlocking sleeve

**Material**

Brass  
Spring bronze  
Brass  
PTFE  
POM

**Plating**

Gold, min. 0.15 µm, over chemical nickel  
White bronze(e.g. Optalloy®)  
Gold, min. 0.15 µm, over chemical nickel  
available in different colours \*

\* The colour is defined in the part number by the colour code YY: bl=blue, gn=green, ro=red, sw=black

**Electrical data**

Impedance	50 $\Omega$
Frequency	DC to 18 GHz
Return loss	$\geq 32$ dB, DC to 3 GHz $\geq 28$ dB, 3 to 4 GHz $\geq 25$ 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
Intermodulation (3 <sup>rd</sup> order)	$\leq -130$ dBc @ 2 x 20 W

- 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)

**Tooling**

N/A

**Suitable cables**

UT 141, RG 402

**Packing**

Standard	100 pcs in bag
Weight	5.0 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
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