



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 E

Material and plating

Connector parts

- Center contact
- Outer contact
- Body
- Dielectric
- Crimping ferrule
- Unlocking sleeve

Material

- Brass
- Spring bronze
- Brass
- PTFE
- Copper
- POM

Plating

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

QMA STRAIGHT PLUG

28S147-103N5-YY ***Electrical data**

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 29 dB, DC to 3 GHz ≥ 28 dB, 3 to 4 GHz ≥ 25 dB, 4 to 6 GHz
Insertion loss	≤ 0.05 x $\sqrt{f(\text{GHz})}$ dB, DC to 6 GHz
Insulation resistance	≥ 5 x 10 ³ MΩ
Center contact resistance	≤ 3 mΩ
Outer contact resistance	≤ 2.5 mΩ
Test voltage, at sea level, 50Hz	750 V rms
Working voltage, at sea level, 50Hz	350 V rms
RF-leakage	≥ 95 dB up to 2 GHz ≥ 80 dB up to 4 GHz ≥ 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	≥ 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)
2002/95/EC (RoHS)	compliant

Tooling

Crimping tool	11W150-000
Crimp insert	11W150-402

Suitable cables

RG 316 /U-d, K02252d

Packing

Standard	100 pcs in bag
Weight	4.1 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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