



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 D

Material and plating

Connector parts

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

Material

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

Plating

- Gold, min. 1.27 µm, over chemical nickel
- 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

Electrical data

| | |
|-------------------------------------|--|
| Impedance | 50 Ω |
| Frequency | DC to 18 GHz |
| Return loss | ≥ 32 dB, DC to 3 GHz ≥ 28 dB, 3 to 4 GHz ≥ 25 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 | 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) |

Tooling

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

Suitable cables

RG 316 /U, RG 174 A/U, RG 188 A/U

Packing

| | |
|----------|----------------|
| Standard | 100 pcs in bag |
| Weight | 3.4 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 |
|--|----------|-----------|----------|------|--|---------------|---------------|
| Rong Fang | 03/03/05 | Rong Fang | 27/10/05 | b00 | 05-0567 | Inge Mühlauer | 27/10/05 |
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