



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
- Unlocking sleeve
- Crimping ferrule

Material

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

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®)

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RF_35/12.04/3.0

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) |
| RoHS | compliant |

Tooling

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

Suitable cables

RG 316 /U-d, K02252d

Weight

| | |
|--------|-----------|
| Weight | 5.3 g/pce |
|--------|-----------|

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| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
|--|----------|----------|----------|------|--|-----------|---------------|
| Inge Mühlauer | 19/09/07 | Sa. K. | 13.03.14 | c00 | 14-0352 | T. Krojer | 13.03.14 |
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