



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**

| Connector parts  | Material      | Plating                                        |
|------------------|---------------|------------------------------------------------|
| Center contact   | Brass         | AuroDur, gold plated                           |
| Outer contact    | Spring bronze | White bronze(e.g. Optalloy®)                   |
| Body             | Brass         | Flash white bronze over silver(e.g. Optargen®) |
| Dielectric       | PTFE          |                                                |
| Crimping ferrule | Copper        | Flash white bronze over silver(e.g. Optargen®) |
| Unlocking sleeve | POM           | 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                         | ≥ 29 dB, DC to 3 GHz<br>≥ 28 dB, 3 to 4 GHz<br>≥ 25 dB, 4 to 6 GHz |
| Insertion loss                      | ≤ 0.05 x √f(GHz) dB, DC to 6 GHz                                   |
| Insulation resistance               | ≥ 5 x10 <sup>3</sup> 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<br>≥ 80 dB up to 4 GHz<br>≥ 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  | 11W150-402 |

**Suitable cables**

RG 316 /U-d, K02252d

**Weight**

|        |           |
|--------|-----------|
| 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          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------|----------|------|--------------------------------------------------------------------------------------------------------------------|-----------|---------------|
| Inge Mühlauer                                                                                                                                          | 05/10/04 | Sa. Krautenbacher | 13.03.14 | e00  | 14-0352                                                                                                            | T. Krojer | 13.03.14      |
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