



All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to IEC 60169-9, CECC 22140, US MIL-C-39012

Documents

Assembly instruction 59 F

Material and plating

| Connector parts | Material | Plating |
|------------------|------------------|------------------------------|
| Center contact | Beryllium copper | Auro Dur, gold plated |
| Outer contact | Brass | Auro Dur, gold plated |
| Body | Brass | Gold, 0.1 μm min. |
| Dielectric | PTFE | |
| Coupling nut | Brass | Gold, 0.1 μm min. |
| Crimping ferrule | Copper | Gold, 0.1 μm min. |

Electrical data

| | |
|---------------------------|--|
| Impedance | 50 Ω |
| Frequency | DC to 6 GHz |
| Return loss | ≥ 25 dB, DC to 1 GHz ≥ 20 dB, 1 to 3 GHz ≥ 17 dB, 3 to 6 GHz |
| Insertion loss | ≤ 0.1 x √f(GHz) dB |
| Insulation resistance | ≥ 1x10 ³ MΩ |
| Center contact resistance | ≤ 5 mΩ |
| Outer contact resistance | ≤ 2.5 mΩ |
| Test voltage | 750 V rms, 50 Hz, at sea level |
| Working voltage | ≤ 250 V rms, 50 Hz, at sea level |
| RF-leakage | ≥ 90 dB up to 1 GHz |

- Limitations are possible due to the used cable type -

Mechanical data

| | |
|-----------------------------------|--------------------|
| Mating cycles | min. 500 |
| Coupling nut retention | ≥ 150 N |
| Coupling test torque | max. 0.71 Nm |
| Recommended torque | 0.25 Nm to 0.35 Nm |
| Center contact captivation: axial | ≥ 10 N |

Environmental data

| | |
|---------------------|---------------------------------|
| Temperature range | -55°C to +155°C |
| Thermal shock | MIL-STD-202, Meth. 107, Cond. B |
| Vibration | MIL-STD-202, Meth. 204, Cond. D |
| Moisture resistance | MIL-STD-202, Meth. 106 |
| Corrosion | MIL-STD-202, Meth. 101, Cond B |
| RoHS | compliant |

Tooling

| | |
|---------------|------------|
| Crimping tool | 11W150-000 |
| Crimp insert | 11W150-103 |

Suitable cables

RG 316 /U-d, K02252d

Weight

| | |
|--------|-----------|
| Weight | 2.7 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 | 21/12/04 | Sa. Krautenbacher | 17.03.14 | e00 | 14-0352 | T. Krojer | 17.03.14 |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de | | | | | Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: info@rosenberger.de | | Page 2 / 2 |