



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

**Interface**

According to IEC 60169-4, VG 95250, EN 122190, DIN 47223

**Documents**

Assembly instruction 53 013

**Material and plating**

**Connector parts**

|                  | <b>Material</b> | <b>Plating</b>                                 |
|------------------|-----------------|--|
| Center contact   | Spring bronze   | Silver, 3-6 $\mu$ m                            |
| Outer contact    | Brass           | Flash white bronze over silver(e.g. Optargen®) |
| Body             | Brass           | Flash white bronze over silver(e.g. Optargen®) |
| Dielectric       | PTFE            |  |
| Gasket           | Silicone        |  |
| Crimping ferrule | Copper          | Flash white bronze over silver(e.g. Optargen®) |

**Electrical data**

|  |   |
|--|---|
| Impedance                                      | 50 Ω  |
| Frequency                                      | DC to 8.3 GHz                                   |
| Return loss                                    | ≥ 30 dB, DC to 2.5 GHz<br>≥ 28 dB, 2.5 to 5 GHz |
| Insertion loss                                 | ≤ 0.05 dB                                       |
| Insulation resistance                          | ≥ 10 <sup>4</sup> MΩ                            |
| Center contact resistance                      | ≤ 0.4 mΩ  |
| Outer contact resistance                       | ≤ 1.5 mΩ  |
| Test voltage (at sea level)                    | 4000 V rms, 50 Hz                               |
| Working voltage (at sea level)                 | 2700 V rms, 50 Hz                               |
| Power handling (at 20 °C, sea level, VSWR 1.0) | 1800 W @ 1 GHz<br>800 W @ 4 GHz                 |
| RF-leakage                                     | ≥ 128 dB up to 1 GHz                            |

- Limitations are possible due to the used cable type -

**Mechanical data**

|                                   |             |
|-----------------------------------|-------------|
| Mating cycles                     | min. 500    |
| Coupling nut retention            | ≥ 1000 N    |
| Center contact captivation: axial | ≥ 200 N     |
| radial                            | ≥ 2 Ncm     |
| Coupling torque (recommended)     | 25 to 30 Nm |
| Proof torque                      | max. 35 Nm  |

**Environmental data**

|                             |  |
|-----------------------------|--|
| Temperature range           | -45°C to +85°C                         |
| Rapid change of temperature | DIN EN 122190, clause 4.6.7            |
| Corrosion salt mist         | DIN EN 122190, clause 4.6.10           |
| Vibration                   | DIN EN 122190, clause 4.6.3            |
| Damp heat                   | DIN EN 122190, clause 4.6.6            |
| Climatic tests              | DIN EN 122190, clause 4.6.5 (45/85/56) |
| 2002/95/EC (RoHS)           | compliant                              |

**Tooling**

|               |            |
|---------------|------------|
| Crimping tool | 11W150-000 |
| Crimp insert  | 11W150-208 |

**Suitable cables**

RG 141 /U, RG 58 C/U

**Packing**

|          |               |
|----------|---------------|
| Standard | 20 pcs in box |
| Weight   | 106.9 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.

RF\_35/12.04/3.0

| Draft  | Date     | Approved        | Date     | Rev. | Engineering change number  | Name        | Date          |
|--|----------|-----------------|----------|------|--|-------------|---------------|
| Inge Mühlauer  | 29/06/04 | J_Krautenbacher | 29/10/09 | e00  | 09-0734  | Fl. Öllerer | 29.10.09      |
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