



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

**Interface**

According to IEC 61169-16, MIL-PRF-39012, CECC 22210

**Documents**

Assembly instruction 53 O3  
Panel piercing B 12

**Material and plating**

**Connector parts**

|                  |        |
|------------------|--------|
| Center contact   | CuBe   |
| Outer contact    | Brass  |
| Body             | Brass  |
| Dielectric       | PTFE   |
| Crimping ferrule | Copper |

**Plating**

AuroDur®, gold plated  
Flash white bronze over silver(e.g. Optargen®)  
Flash white bronze over silver(e.g. Optargen®)  
Flash white bronze over silver(e.g. Optargen®)

**Electrical data**

|  |  |
|--|--|
| Impedance                                      | 50 Ω   |
| Frequency                                      | DC to 11 GHz   |
| Return loss                                    | ≥ 35 dB, DC to 1 GHz<br>≥ 25 dB, 1 to 2 GHz<br>≥ 20 dB, 2 to 6 GHz |
| Insertion loss                                 | ≤ 0.05 dB, DC to 6 GHz   |
| Insulation resistance                          | ≥ 5 x10 <sup>3</sup> MΩ  |
| Center contact resistance                      | ≤ 1 mΩ   |
| Outer contact resistance                       | ≤ 0.25 mΩ  |
| Working voltage                                | 500 V rms  |
| Power handling (at 20 °C, sea level, VSWR 1.0) | 1000 W @ 1 GHz<br>700 W @ 2 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 test torque | max. 1.7 Nm      |
| Recommended torque   | 0.7 Nm to 1.1 Nm |

**Environmental data**

|                     |                                 |
|---------------------|---------------------------------|
| Temperature range   | -55°C to +155°C                 |
| Thermal shock       | MIL-STD-202, Meth. 107, Cond. B |
| Corrosion           | MIL-STD-202, Meth. 101, Cond. B |
| Vibration           | MIL-STD-202, Meth. 204, Cond. B |
| Shock               | MIL-STD-202, Meth. 213, Cond. I |
| Moisture resistance | MIL-STD-202, Meth. 106          |
| RoHS                | compliant                       |

**Tooling**

|               |            |
|---------------|------------|
| Crimping tool | 11W150-000 |
| Crimp insert  | 11W150-215 |

**Suitable cables**

RG 213 /U

**Weight**

|        |            |
|--------|------------|
| Weight | 38.4 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



|  |          |             |          |  |                           |                |               |
|--|----------|-------------|----------|--|---------------------------|----------------|---------------|
| Draft  | Date     | Approved    | Date     | Rev.   | Engineering change number | Name           | Date          |
| Inge Mühlauer  | 22.06.04 | Chr. Janßen | 19.01.21 | g00  | 20-1927                   | S. Huber-Siegl | 19.01.21      |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.com">www.rosenberger.com</a> |          |             |          | Tel. : +49 8684 18-0<br>Email : <a href="mailto:info@rosenberger.com">info@rosenberger.com</a> |                           |                | Page<br>2 / 2 |