



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

**Interface**

According to DIN EN 61169-8

**Documents**

Assembly instruction 51 E

**Material and plating**

**Connector parts**

| Connector parts | Material        | Plating  |
|-----------------|-----------------|--|
| Center contact  | Brass           | AuroDur®, gold plated                          |
| Outer contact   | Brass           | Flash white bronze over silver(e.g. Optargen®) |
| Body            | Brass           | Flash white bronze over silver(e.g. Optargen®) |
| Dielectric      | PTFE            |  |
| Gasket          | NeopreneCR 50C6 |  |
| Gasket          | Silicone        |  |

**Electrical data**

|  |  |
|--|--|
| Impedance                                      | 50 Ω   |
| Frequency                                      | DC to 10 GHz   |
| Return loss                                    | ≥ 20 dB, DC to 1 GHz<br>≥ 15 dB, 1 to 2 GHz<br>≥ 10 dB, 2 to 4 GHz |
| Insertion loss                                 | ≤ 0.15 x √ f [GHz] dB, DC to 4 GHz                                 |
| Insulation resistance                          | ≥ 5 x 10 <sup>3</sup> MΩ   |
| Center contact resistance                      | ≤ 1.5 mΩ   |
| Outer contact resistance                       | ≤ 1 mΩ   |
| Test voltage                                   | 1500 V rms   |
| Working voltage                                | 400 V rms  |
| Power handling (at 20 °C, sea level, VSWR 1.0) | ≤ 80 W @ 2 GHz   |

- Limitations are possible due to the used cable type -

**Mechanical data**

|                                   |        |
|-----------------------------------|--------|
| Mating cycles                     | ≥ 500  |
| Center contact captivation: axial | ≥ 15 N |

**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. G |
| Moisture resistance | MIL-STD-202, Meth. 106          |
| RoHS                | compliant                       |

**Tooling**

N/A

**Suitable cables**

RG 196 A/U, RG 178 B/U

**Weight**

Weight 18.2 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 | 20.07.04 | Chr. Janßen | 17.12.20 | f00  | 20-1927                   | S. Huber-Siegl | 17.12.20 |

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