



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

Interface

According to IEC 61169-54

Documents

Panel piercing B 75a

Material and Plating

Connector parts

Center contact
Outer contact
Body
Dielectric

Material

CuBe
Brass
Brass
PTFE

Plating

Silver, 3-6 µm
Silver, 3-6 µm
White bronze(e.g. Optalloy®)

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RFB00035/12.20/6.4

Electrical Data

| | |
|---|--|
| Impedance | 50 Ω |
| Frequency | DC to 6 GHz |
| Return loss | ≥ 36 dB @ DC to 4 GHz ≥ 32 dB @ 4 GHz to 6 GHz |
| Insertion loss | ≤ 0.05 x √ f [GHz] dB |
| Insulation resistance | ≥ 5 GΩ |
| Center contact resistance | ≤ 1.0 mΩ |
| Outer contact resistance | ≤ 1.0 mΩ |
| Test voltage | 2500 V rms |
| Working voltage | 500 V rms |
| RF-leakage | ≥ 110 dB @ DC to 6 GHz for tool tightened plugs ≥ 90 dB @ DC to 3 GHz for tool-less plugs ≥ 70 dB @ 3 to 6 GHz for tool-less plugs |
| Power handling (at 90 °C, altitude 3000m) | 500 W @ 2.0 GHz |
| Intermodulation (3 rd order) | ≥ 160 dBc (2 x 46 dBm) @ 0.4 – 4.0 GHz ≥ 166 dBc (2 x 43 dBm) @ 0.4 – 4.0 GHz |

- RL values only valid for the interface -

Mechanical Data

| | |
|--------------------|-------|
| Mating cycles | ≥ 100 |
| Recommended torque | 5 Nm |

Environmental Data

| | |
|-----------------------------------|--|
| Temperature range | -55 °C to +90 °C operating temperature |
| Thermal shock | IEC 61169-1 9.4.4 |
| Corrosion resistance | ISO 21207 method B |
| Vibration | IEC 61169-1 9.3.3 and IEC 60068-2-64 |
| Shock | IEC 61169-1 9.3.14 |
| Degree of protection (mated pair) | IEC 60529, IP68 1 h / 25 m |
| RoHS | compliant |

Weight

70 g/pc

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.



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|--|------------|-------------|------------|------|--|--------------|---------------|
| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
| M. Wimmer | 16.10.2014 | Chr. Janßen | 10.03.2021 | b00 | 20-1927 | B. Wollitzer | 10.03.2021 |
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