



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

Interface

According to NEX10®

Documents

Assembly instruction 89 C1

Material and Plating

Connector parts

| | |
|----------------|---------------|
| Center contact | Brass |
| Outer contact | Spring bronze |
| Body | Brass |
| Dielectric | PTFE |
| Gasket | Silicone |

Plating

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

Electrical Data

| | |
|---|--|
| Impedance | 50 Ω |
| Frequency | DC to 20 GHz |
| Return loss | ≥ 32 dB @ DC to 6 GHz ≥ 26 dB @ 6 to 10 GHz |
| Insertion loss | ≤ 0.05 x √ f [GHz] dB |
| Insulation resistance | ≥ 5 GΩ |
| Center contact resistance | ≤ 2.0 mΩ |
| Outer contact resistance | ≤ 1.0 mΩ |
| Test voltage | 500 V rms |
| RF-leakage | ≥ 110 dB @ DC to 6 GHz |
| Power handling | 100 W @ 2.0 GHz and 85°C ambient temperature 50 W @ 2.0 GHz and 105°C ambient temperature |
| Intermodulation (3 rd order) | ≥ 160 dBc (2 x 43 dBm) @ 0.4 – 6.0 GHz |

- Limitations are possible due to the used cable type

Mechanical Data

| | |
|--------------------|--------|
| Mating cycles | ≥ 100 |
| Recommended torque | 1.5 Nm |

Environmental Data

| | |
|-----------------------------------|---|
| Temperature range | -55 °C to +125 °C operating temperature |
| Thermal shock | IEC 61169-1 9.4.4 |
| 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 24h / 1m |
| RoHS | compliant |

Tooling

N/A

Suitable Cables

UT 085, RG 405 and similar

Weight

10 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.



| | | | | | | | |
|--|------------|-------------|------------|------|--|--------------|---------------|
| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
| F. Fraunhofer | 16.08.2017 | Chr. Janßen | 22.02.2021 | b00 | 20-1927 | B. Wollitzer | 22.02.2021 |
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