



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

Interface

According to IEC 60169-17, MIL-PRF-39012, DIN EN 122200

Documents

Assembly instruction 51 T

Material and plating

Connector parts

| | Material | Plating |
|------------------|-----------------|------------------------------------------------|
| Center contact | Spring bronze | 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 | |
| Crimping ferrule | Copper | Flash white bronze over silver(e.g. Optargen®) |

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Electrical data

| | |
|------------------------------------------------|---------------------------------------------------------------------|
| Impedance | 50 Ω |
| Frequency | DC to 10 GHz |
| Return loss | ≥ 28 dB, DC to 1 GHz ≥ 25 dB, 1 to 2 GHz ≥ 20 dB, 2 to 10 GHz |
| Insertion loss | ≤ 0.05 x √ f [GHz] dB |
| Insulation resistance | ≥ 5 GΩ |
| Center contact resistance | ≤ 1.5 mΩ |
| Outer contact resistance | ≤ 1 mΩ |
| Test voltage | 1500 V rms |
| Working voltage | 500 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 |
| Coupling test torque | ≤ 1.7 Nm |
| Recommended torque | 0.46 Nm to 0.69 Nm |

Environmental data

| | |
|---------------------|--------------------------------------|
| Temperature range | -45 °C to +85 °C |
| Thermal shock | MIL-STD-202, Method 107, Condition B |
| Corrosion | MIL-STD-202, Method 101, Condition B |
| Vibration | MIL-STD-202, Method 204, Condition B |
| Shock | MIL-STD-202, Method 213, Condition G |
| Moisture resistance | MIL-STD-202, Method 106 |
| RoHS | compliant |

Tooling

| | |
|---------------|------------|
| Crimping tool | 11W150-000 |
| Crimp insert | 11W150-402 |

Suitable cables

RG 316 /U, RG 174 A/U, RG 188 A/U

Weight

| | |
|--------|------------|
| Weight | 12.9 g/pce |
|--------|------------|

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|----------------------------------------------------------------------------------------------------------------|----------|-------------------|----------|------|------------------------------------------------------------------------------|-----------|---------------|
| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
| Inge Mühlauer | 10.08.04 | Sa. Krautenbacher | 20.03.14 | d00 | 14-0352 | T. Krojer | 20.03.14 |
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