



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

Interface

according to IEC 61169-54

Documents

Assembly Instruction 64 A5

Material and Plating

Connector parts

Center contact	CuBe
Outer contact	Brass
Body	Brass
Dielectric	PTFE

Plating

Silver, 3-6 µm
 Silver, 3-6 µm
 Flash white bronze over silver(e.g. Optargen®)

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Electrical Data

Impedance	50 Ω
Frequency	DC to 12 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

- Limitations are possible due to the used cable type –
- 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 60169-1, Sub-clause 16.4
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

Tooling

N/A

Suitable Cables

UT 141, RG 402 /U, RTK-FS 141

Weight

32 g/pc

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



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