



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

Interface

according to IEC 61169-54

Documents

Assembly instruction 1C7-CX5

Material and Plating

Connector parts

	Material	Plating
Center contact	Brass	Silver, 3-6 μm
Outer contact	Brass	White bronze(e.g. Optalloy®)
Back nut	Brass	Nickel, 2.5-5 μm
Coupling nut	Brass	White bronze(e.g. Optalloy®)
Dielectric	TPX	
Gasket	Silicone	
Spring part	Spring bronze	Tin, 1-3 μm

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Electrical Data

Impedance	50 Ω
Frequency	DC to 12 GHz
Return loss	≥ 36 dB @ DC to 2.7 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
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 value only valid for the interface-

Mechanical Data

Mating cycles	≥ 100
Center contact captivation: axial	> 30 N
radial	> 5 Ncm
Center contact retention force	1.5 - 20 N
Outer contact retention force	4 - 35 N
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 1h / 25m
RoHS	compliant

Tooling

Stripping tool	SLT001-C05, 60W107-CX5
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Suitable Cables

SL 078R Series (recommended) and similar

Weight

170 g/pc

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



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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