



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

Interface

According to IEC 61169-4, EN 122190, DIN 47223

Documents

Assembly instruction MA_1C7-CX5

Material and plating

Connector parts

Connector parts	Material	Plating
Center contact	Brass	Silver, 3-6 µm
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Back nut	Brass	Nickel, 2.5-5 µm
Dielectric	TPX	
Gasket	Silicone	
Spring part	Spring bronze	Tin, 1-3 µm

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RF_35/05.10/6.0

7-16

STRAIGHT PLUG
(7/8"R)

60S1C7-CX5N1

Electrical data

Impedance	50 Ω
Frequency	DC to 8.3 GHz
Return loss	≥ 37 dB @ DC to 1 GHz ≥ 35 dB @ 1 GHz to 2.7 GHz
Insertion loss	≤ 0.05 dB
Insulation resistance	≥ 10 GΩ
Center contact resistance	≤ 0.4 mΩ
Outer contact resistance	≤ 1.5 mΩ
Test voltage (at sea level)	4000 V rms
Working voltage (at sea level)	2700 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1800 W @ 1 GHz 800 W @ 4 GHz
Intermodulation 3 rd order	≥ 159 dBc (2 x 43 dBm)

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	≥ 500
Coupling nut retention	≥ 1000N
Center contact captivation: axial	≥ 200 N
radial	≥ 2 Ncm
Coupling torque(recommended)	25 to 30 Nm
Proof torque	≤ 35 Nm

Environmental data

Temperature range	-45 ° C to +85 ° C
Rapid change of temperature	DIN EN 122190, Sub-clause 4.6.7
Corrosion resistance	DIN EN 122190, Sub-clause 4.6.10
Vibration	DIN EN 122190, Sub-clause 4.6.3
Climatic category	DIN EN 122190, Sub-clause 4.6.5 (45/85/21)
Damp heat	DIN EN 122190 , Sub-clause 4.6.6
Degree of protection (mated pair)	IEC 60529, IP68
2002/95/EC (RoHS)	compliant

Tooling

Stripping tool	60W107-CX5
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Suitable cables

SL 078R Series (Recommend)

Packing

Standard	1 pce in box
Weight	162 g/pce

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.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
ZhaiQK	18/05/09	Luding	27/11/12	e	12-0943	Robert	12/11/12
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