



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-C03

Material and plating

Connector parts

- Center contact (interface side)
- Center contact (cable side)
- Outer contact
- Back nut
- Dielectric
- Gasket

Material

- Brass
- Spring bronze
- Brass
- Brass
- TPX&POM
- Silicone

Plating

- Silver, 3-6 µm
- Silver, 3-6 µm
- Flash white bronze over silver(e.g. Optargen®)
- Nickel, 2.5-5 µm

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RF_35/05.10/6.0

7-16

STRAIGHT PLUG
(1/2"R)

60S1C7-C03N1

Electrical data

Impedance	50 Ω
Frequency	DC to 8.3 GHz
Return loss	≥ 35 dB @ DC to 1 GHz ≥ 32 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	60W110-C03
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Suitable cables

SL 012R Series (Recommend)

Packing

Standard	1 pce in bag
Weight	90.5 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
Roger	12/05/09	Luding	27/11/12	d	12-0943	Robert	12/11/12
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