



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-C08

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®)
- Flash white bronze over silver(e.g. Optargen®)

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STRAIGHT PLUG
(1/2"S)

60S1C7-C08N1

Electrical data

Impedance 50 Ω
 Frequency DC to 7.5 GHz
 Return loss ≥ 35 dB @ DC to 1 GHz
 ≥ 30 dB @ 1 GHz to 2.7 GHz
 Insertion loss ≤ 0.05 x √f [GHz] dB
 Insulation resistance ≥ 10 GΩ
 Center contact resistance ≤ 0.4 mΩ
 Outer contact resistance ≤ 1.5 mΩ
 Working voltage (at sea level) 500 V rms
 Power handling (at 20 °C, sea level, VSWR 1.0) 1800 W @ 1 GHz
 800 W @ 4 GHz
 Intermodulation (3rd order) ≥159 dBc(2 x 43 dBm)

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles ≥ 500
 Coupling nut retention ≥ 1000 N
 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 (1m depth of water,1.5 hours)
 RoHS compliant

Tooling

Stripping tool 60W110-C08

Suitable cables

SL 012S Series(Recommend)

Weight

Weight 109.2 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
Chen XW	12.05.09 07/05/15	Martin Wimmer	15.05.15	f	15-0004	JamesQiu	14.05.15

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