



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**

- Spring bronze
- 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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**STRAIGHT JACK**  
(1/2"R)

**60K1C7-C03N1**

**Electrical data**

Impedance	50 Ω
Frequency	DC to 8.3 GHz
Return loss	≥ 35 dB @ DC to 1 GHz ≥ 34 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
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 (3 <sup>rd</sup> order)	≥ 160 dBc (2 x 43 dBm)

- Limitations are possible due to the used cable type -

**Mechanical data**

Mating cycles	≥ 500
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	85.3 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	Heanyang	14/03/18	f	18-0443	Songxianglong	14/03/18
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