



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

| | Material | Plating |
|----------------|---------------|--|
| Center contact | Spring bronze | 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_35/09_14/6.2

7-16

STRAIGHT JACK
(7/8"R)

60K1C7-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 |
| 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 rd 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 | 60W107-CX5 |
|----------------|------------|

Suitable cables

SL 078R Series (Recommend)

Packing

| | |
|----------|--------------|
| Standard | 1 pce in box |
| Weight | 151 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 | heanyang | 26/07/16 | g | 16-0606 | Songxianglong | 19/04/16 |
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