



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

Interface

According to IEC 60169-4, VG 95250, EN 122190, DIN 47223

Documents

Assembly instruction 60 I35

Material and plating

Connector parts

- Center contact
- Outer contact
- Body
- Dielectric
- Gasket

Material

- Spring bronze
- Brass
- Brass
- PTFE
- Silicone

Plating

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

7/16 STRAIGHT JACK
(1/2" S)

www.pewtronic.cz
PLU010127

Electrical data

Impedance	50 Ω
Frequency	DC to 8.3 GHz
Return loss	≥ 35 dB, DC to 1 GHz ≥ 30 dB, 1 to 2.7 GHz
Insertion loss	≤ 0.05 dB
Insulation resistance	≥ 10 ⁴ MΩ
Center contact resistance	≤ 0.4 mΩ
Outer contact resistance	≤ 1.5 mΩ
Test voltage (at sea level)	4000 V rms, 50 Hz
Working voltage (at sea level)	2700 V rms, 50 Hz
Power handling (at 20 °C, sea level, VSWR 1.0)	1800 W @ 1 GHz 800 W @ 4 GHz
RF-leakage	≥ 128 dB up to 1 GHz
Intermodulation (3 rd order)	≤ -117 dBm @ 2 x 20 W

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 500
Center contact captivation: axial	≥ 200 N
Coupling torque (recommended)	25 to 30 Nm
Proof torque	max. 35 Nm

Environmental data

Temperature range	-40°C to +85°C
Rapid change of temperature	DIN EN 122190, clause 4.6.7
Corrosion salt mist	DIN EN 122190, clause 4.6.10
Vibration	DIN EN 122190, clause 4.6.3
Damp heat	DIN EN 122190, clause 4.6.6
Climatic tests	DIN EN 122190, clause 4.6.5 (40/85/56)
Degree of protection (mated pair)	IEC 60529, IP68 2.5 bar
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

Leoni 1/2 " S (recommended)
Andrew FSJ 4-50A
RFS SCF 12-50AlCu

Packing

Standard	1 pce in bag
Weight	161.7 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
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