



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 60 I23

**Material and plating**

**Connector parts**

Center contact	Material	Spring bronze
Outer contact		Brass
Body		Brass
Dielectric		PTFE
Gasket		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  
(1/4" S)

**60K115-C09N1**

**Electrical data**

Impedance	50 Ω
Frequency	DC to 7.5 GHz
Return loss	≥ 35 dB, DC to 1 GHz ≥ 30 dB, 1 to 2.7 GHz
Insertion loss	≤ 0.05 dB
Insulation resistance	≥ 10 <sup>4</sup> MΩ
Center contact resistance	≤ 0.4 mΩ
Outer contact resistance	≤ 1.5 mΩ
Working voltage (at sea level)	500 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 <sup>rd</sup> 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
radial	≥ 2 Ncm
Coupling torque (recommended)	25 to 30 Nm
Proof torque	max. 35 Nm

**Environmental data**

Temperature range	-45°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 (45/85/56)
Degree of protection (mated pair)	IEC 60529, IP68 2.5 bar
RoHS	compliant

**Tooling**

N/A

**Suitable cables**

Leoni 1/4" S (recommended)  
Andrew FSJ 1-50A  
RFS SCF 14-50

**Weight**

Weight 127 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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