



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

Description

Female coaxial connector, series N acc. international interface standards. The connector is designed for 1-1/4"R corrugated cables. The connector is waterproof in mated and unmated condition. The connector will be delivered single packed including assembly instruction.

Interface

According to IEC 60169-16, MIL-PRF-39012, CECC 22210

Documents

Assembly instruction 60 141

Material and plating

Connector parts

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

Material

- Spring bronze
- Brass
- Brass
- TPX
- Silicone

Plating

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

Electrical data

Impedance	50 Ω
Frequency	DC to 11 GHz
Return loss	≥ 35 dB, DC to 1 GHz ≥ 30 dB, 1 to 2.7 GHz
Insertion loss	≤ 0.05 dB
Insulation resistance	≥ 5 x10 ³ MΩ
Center contact resistance	≤ 1 mΩ
Outer contact resistance	≤ 0.25 mΩ
Test voltage (at sea level)	2500 V rms
Working voltage (at sea level)	1400 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz 700 W @ 2 GHz
RF-leakage	≥ 128dB up to 1 GHz
Intermodulation (3 rd order)	≤ -115 dBm @ 2 x 20 W

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 500
Center contact captivation: axial	≥ 28 N
radial	≥ 3 Ncm
Coupling test torque	max. 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm

Environmental data

Temperature range	-45°C to +85°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
Degree of protection	IEC 60529, IP68
2002/95/EC (RoHS)	compliant

Tooling

99W101-C06

Suitable cables

SL 114R (recommended) or Andrew LDF6-50A or Leoni 1 1/4"R

Packing

Standard	1 pce in bag
Weight	336 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	Checker	Approved	Date	Rev.	Engineering change number	Name	Date
Roger	16/04/09	Songzg	Kevin	06.11.09	2.0	09-v416	ZhaiQK	27/10/09
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