



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

Documents

Assembly instruction 60 E12

Material and Plating

Connector parts

Center contact
Outer contact
Dielectric
Gasket

Material

Brass
Brass
PTFE
Silicone

Plating

Silver, 3-6 µm
White bronze(e.g. Optalloy®)

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Straight Plug

60S137-273N1

Electrical Data

Impedance 50 Ω
 Frequency DC to 7.5 GHz
 Return loss ≥ 35 dB @ DC to 2.5 GHz
 ≥ 30 dB @ 2.5 GHz to 6 GHz
 ≥ 23 dB @ 6 GHz to 8.3 GHz
 Insertion loss ≤ 0.1 x √f [GHz] 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
 RF-leakage ≥ 128 dB @ DC to 1 GHz
 Intermodulation (3rd order) ≥ 168 dBc (2 x 43 dBm)

- Limitations are possible due to the used cable type -

Mechanical Data

Mating cycles ≥ 500
 Coupling nut retention ≥ 1000 N
 Center contact captivation: axial ≥ 200 N
 radial ≥ 2 Ncm
 Coupling torque (recommended) 25 to 30 Nm
 Proof torque ≤ 35 Nm

Environmental Data

Temperature range -55 °C to +155 °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 (55/155/56)
 Damp heat DIN EN 122190 , Sub-clause 4.6.6
 Degree of protection (mated pair) IEC 60529, IP67
 RoHS compliant

Suitable Cables

RG 401, UT 250, RTK-FS 250, Flexiform 401

Weight

50.05 g/pc

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
Rong Fang	22.09.08	Fraunhofer	26.06.15	c00	15-0759	B. Wollitzer	26.04.15

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