



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

**Documents**

Assembly instruction 60 E13

**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 (3 <sup>rd</sup> 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	M. Wimmer	11.08.17	d00	17-1362	Fl. Öllerer	11.08.17

Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>				Tel. : +49 8684 18-0 Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>		Page 2 / 2	
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