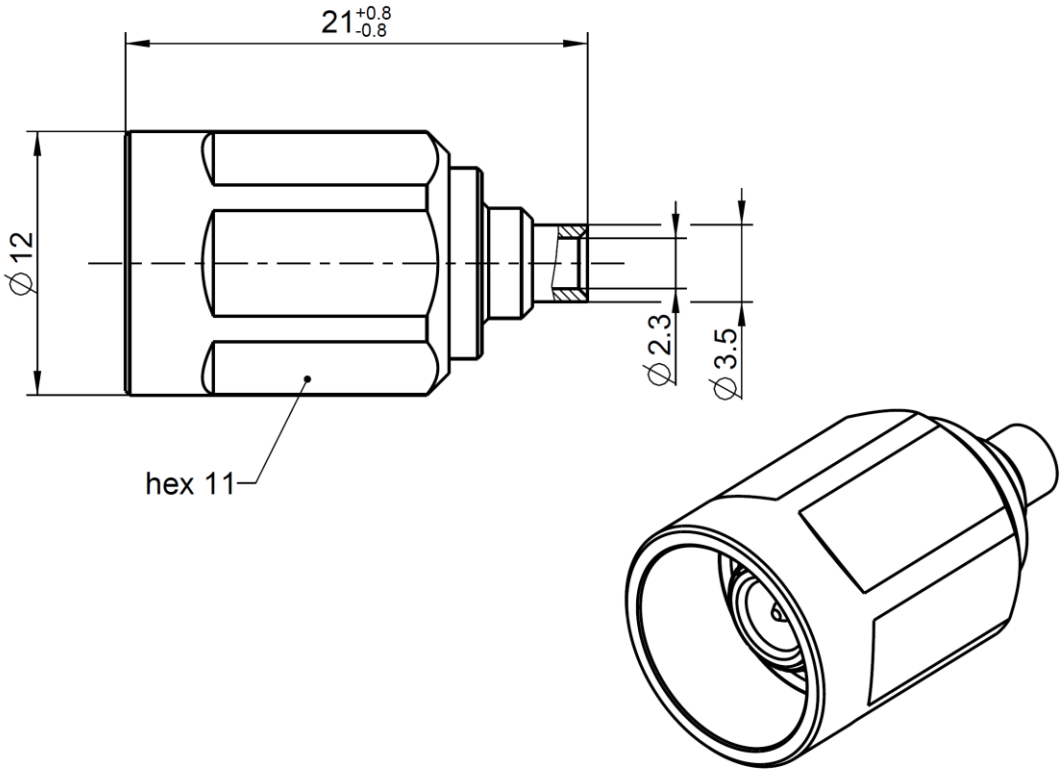
Technical Data Sheet		Rosenberger
NEX10	Straight Plug	**89S101-271N1**



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

Interface

According to	NEX10®

Documents

Assembly instruction	89 B1

Material and Plating

Connector parts	Material	Plating
Center contact	Brass	Silver, 3-6 µm
Outer contact	Spring bronze	Silver, 3-6 µm
Body	Brass	White bronze(e.g. Optalloy®)
Dielectric	PTFE	
Gasket	Silicone	

Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.com

Tel. : +49 8684 18-0
Email : info@rosenberger.com

Electrical Data

Impedance	50 Ω
Frequency	DC to 20 GHz
Return loss	≥ 36 dB @ DC to 2 GHz ≥ 25 dB @ 2 to 6 GHz
Insertion loss	≤ 0.05 x $\sqrt{f\,[GHz]}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 2.0 mΩ
Outer contact resistance	≤ 1.0 mΩ
Test voltage	500 V rms
RF-leakage	≥ 110 dB @ DC to 6 GHz (tool tightened)
Power handling	100 W @ 2.0 GHz and 85°C ambient temperature 50 W @ 2.0 GHz and 105°C ambient temperature
Intermodulation (3rd order)	≥ 160 dBc (2 x 43 dBm) @ 0.4 – 6.0 GHz

- Limitations are possible due to the used cable type

Mechanical Data

Mating cycles	≥ 100
Retention force of coupling mechanism	> 500N
Recommended torque	1.5 Nm

Environmental Data

Temperature range	-55 °C to +125 °C operating temperature
Thermal shock	IEC 61169-1 9.4.4
Vibration	IEC 61169-1 9.3.3 and IEC 60068-2-64
Shock	IEC 61169-1 9.3.14
Degree of protection (mated pair)	IEC 60529, IP68 24h / 1m
RoHS	compliant

Tooling

N/A

Suitable Cables

UT 085, RG 405 and similar

Weight

8 g/pc

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

Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.com

Tel. : +49 8684 18-0
Email : info@rosenberger.com