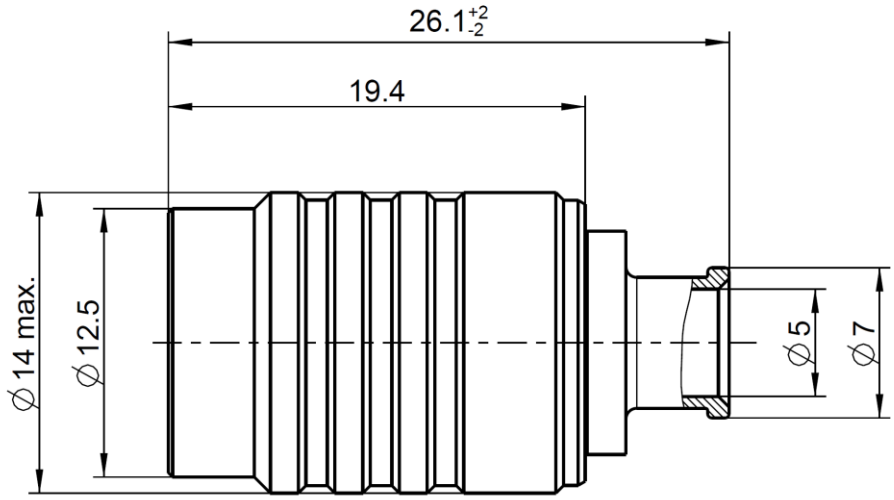
Technical Data Sheet		Rosenberger
NEX10	Straight Plug	**89S161-2M3N1**



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

Interface

According to	NEX10®

Documents

Assembly instruction	89 B2

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	

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Electrical Data

Impedance	50 Ω
Frequency	DC to 20 GHz
Return loss	≥ 32 dB @ DC to 6 GHz ≥ 26 dB @ 6 to 10 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f\,[GHz]}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 2.0 mΩ
Outer contact resistance	≤ 1.0 mΩ
Test voltage	500 V rms
RF-leakage	≥ 90 dB @ DC to 3 GHz ≥ 70 dB @ 3 to 6 GHz
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	> 150N
Engagement force	typ. 50N
Disengagement force	typ. 40N

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

Flexiform 380

Weight

14 g/pc

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

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