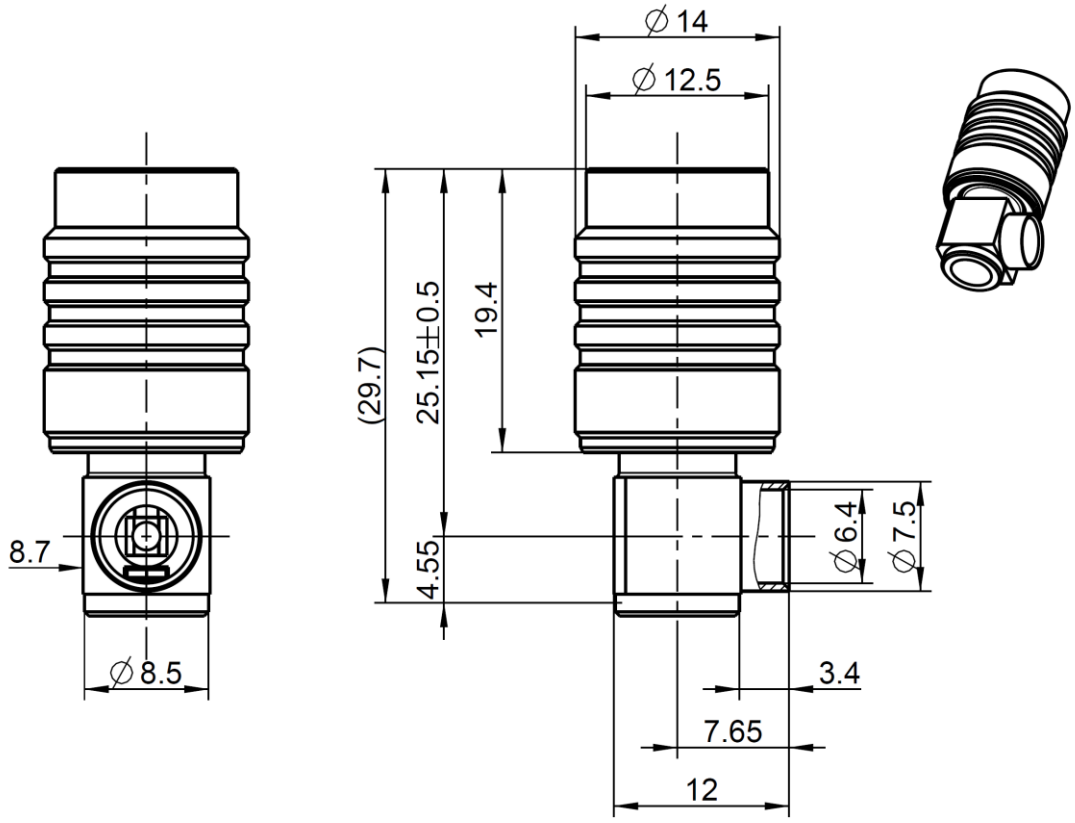
Technical Data Sheet		Rosenberger
NEX10	Right Angle Plug	**89S261-273N1**



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

Interface

According to	NEX10®

Documents

Assembly instruction	89 C1

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

Technical Data Sheet		Rosenberger
NEX10	Right Angle Plug	**89S261-273N1**

Electrical Data

Impedance	50 Ω
Frequency	DC to 20 GHz (optimized up to 6 GHz)
Return loss	≥ 36 dB @ DC to 4 GHz ≥ 34 dB @ 4 to 6 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
Working 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

UT 250, Flexiform 401, RG 401 and similar

Weight

17 g/pc

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

Draft	Date	Approved	Date
F. Fraunhofer	10.04.2019	Chr. Janßen	22.02.2021

Rev.	Engineering change number	Name	Date
b00	20-1927	B. Wollitzer	22.02.2021

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