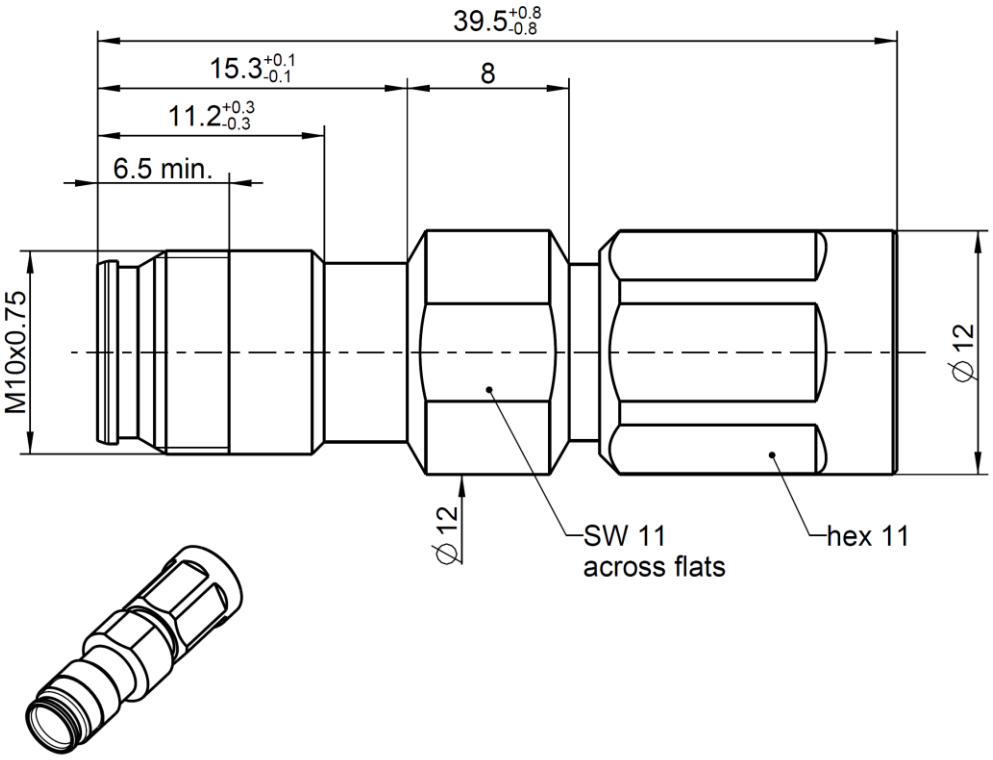
Technical Data Sheet		Rosenberger
NEX10	Adaptor NEX10® Plug – NEX10® Jack	**89S101-K00N1**



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

Interface

According to	NEX10®

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	≥ 30 dB @ DC to 4 GHz ≥ 28 dB @ 4 GHz to 6 GHz ≥ 25 dB @ 6 GHz 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
Working voltage	500 V rms
RF-leakage	≥ 110 dB @ DC to 6 GHz
Power handling	100 W @ 2.0 GHz and 85°C ambient temperature

Mechanical Data

Mating cycles	≥ 100
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

N/A

Weight

19 g/pc

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

Draft	Date	Approved	Date
F. Fraunhofer	15.02.2018	Chr. Janßen	17.02.2021

Rev.	Engineering change number	Name	Date
b00	20-1927	B. Wollitzer	17.02.2021

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