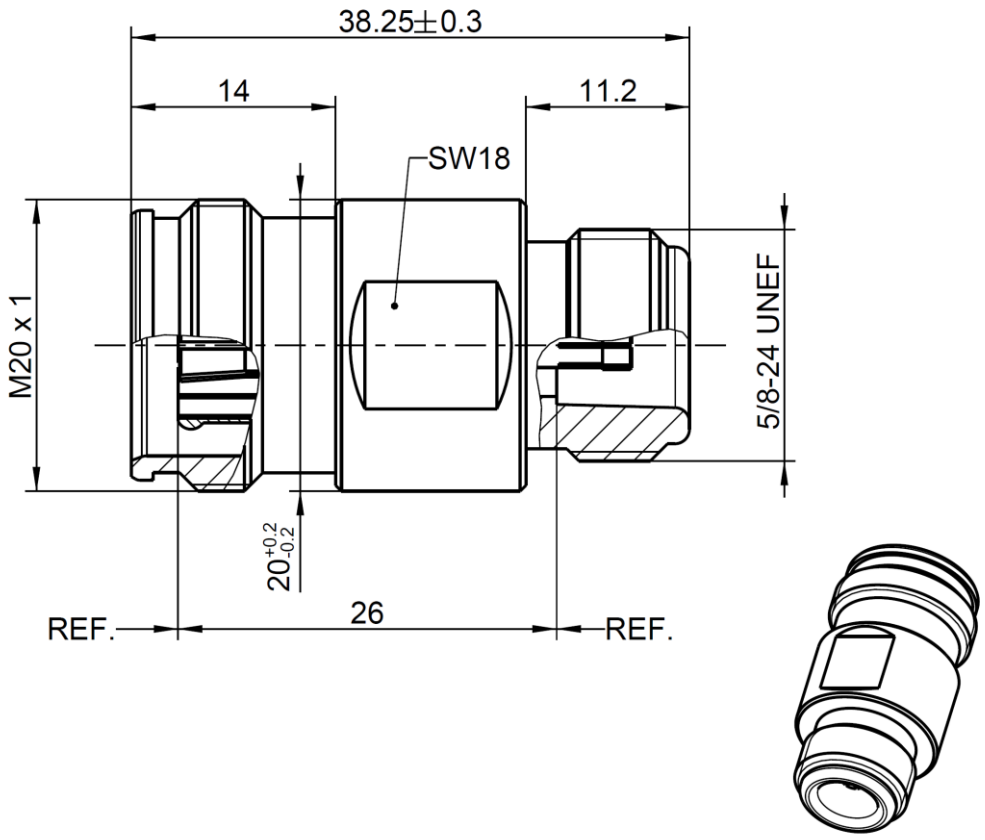
Technical Data Sheet		Rosenberger
N 50 Ω	Adaptor N Jack – 4.3-10 Jack	**53K164-K00B1**



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

Interface

According to	4.3-10 side:	IEC 61169-54
	N side:	IEC 61169-16, MIL-PRF-39012, CECC 22210

Documents

N/A

Material and plating

Connector parts	**Material**	**Plating**
Center contact	CuBe	Silver, 3-6 µm
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Body	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PTFE	
Gasket	Silicone	

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Technical Data Sheet		Rosenberger
N 50 Ω	Adaptor N Jack – 4.3-10 Jack	**53K164-K00B1**

Electrical data

Impedance	50 Ω	
Frequency	DC to 12 GHz	
Return loss	≥ 36 dB @ DC to 4 GHz ≥ 32 dB @ 4 GHz to 6 GHz	
Insertion loss	$\leq 0.03 \times \sqrt{f\,[GHz]}$ dB	
Insulation resistance	≥ 5 GΩ	
Center contact resistance	≤ 1.0 mΩ, 4.3-10 side	≤ 1.0 mΩ, N side
Outer contact resistance	≤ 1.0 mΩ, 4.3-10 side	≤ 0.25 mΩ, N side
Test voltage	2500 V rms	
Working voltage	500 V rms	
RF-leakage	≥ 128 dB @ DC to 1 GHz	
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz 700 W @ 2 GHz	
Intermodulation (3rd order)	≥ 155 dBc (2 x 43 dBm)	

- RL values only valid for the interface -

Mechanical data

	4.3-10 side	N side
Mating cycles	≥ 100	min. 500
Center contact captivation: axial	≥ 30 N	≥ 28 N
radial	> 5 Ncm	≥ 3 Ncm
Center contact retention force	1.5 N – 20 N	
Recommended torque	5 Nm	0.7 to 1.1 Nm

Environmental data

Temperature range	-55 °C to +90 °C operating temperature
Thermal shock	IEC 60169-1, Sub-clause 16.4
Corrosion resistance	ISO 21207 method B
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 1h / 25m
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight	52.9 g/pce

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

Draft	Date	Approved	Date
Chr. Link	23.11.16	Chr. Janßen	22.12.20

Rev.	Engineering change number	Name	Date
b00	20-1927	S. Huber-Siegl	22.12.20

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