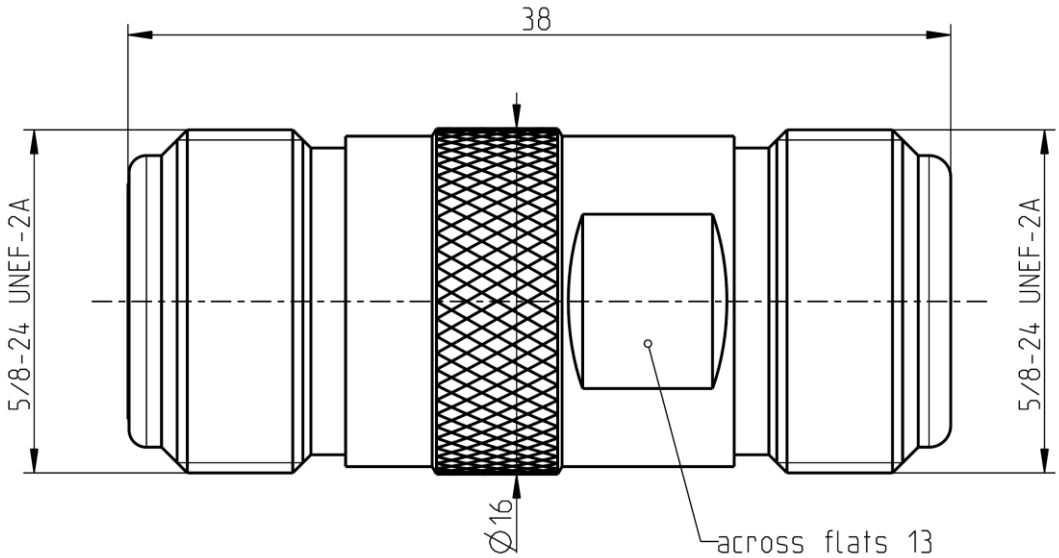
Technical Data Sheet		Rosenberger
N 50 Ω	Adaptor Jack – Jack	**53K102-K00N5**



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

Interface

According to: IEC 61169-16, MIL-PRF-39012, CECC 22210

Documents

N/A

Material and plating

Connector parts	Material	Plating
Center contact	Spring bronze	AuroDur®, gold plated
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PTFE	

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N 50 Ω	Adaptor Jack – Jack	**53K102-K00N5**

Electrical data

Impedance	50 Ω
Frequency	DC to 11 GHz
Return loss	≥ 32 dB @ DC to 2 GHz ≥ 25 dB @ 2 GHz to 4 GHz ≥ 22 dB @ 4 GHz to 9 GHz
Insertion loss	$\leq 0.1 \times \sqrt{f\,[GHz]}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1 mΩ
Outer contact resistance	≤ 0.25 mΩ
Working voltage (at sea level)	500 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz 700 W @ 2 GHz
RF-leakage	≥ 128 dB @ DC to 1 GHz
Intermodulation 3rd order	≥ 158 dBc (2 x 43 dBm)

Mechanical data

Mating cycles	≥ 500
Center contact captivation: axial	≥ 28 N
Coupling test torque	≤ 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm

Environmental data

Temperature range	-45 °C to +85 °C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion resistance	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
Degree of protection (mated pair)	IEC 60529, IP67
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight	42.7 g/pce

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

Draft	Date	Approved	Date
Andreas Fellner	22.01.13	Chr. Janßen	22.12.20

Rev.	Engineering change number	Name	Date
d00	20-1927	S. Huber-Siegl	22.12.20

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