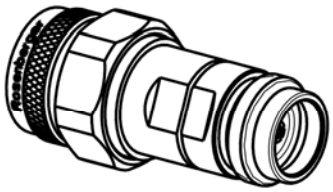
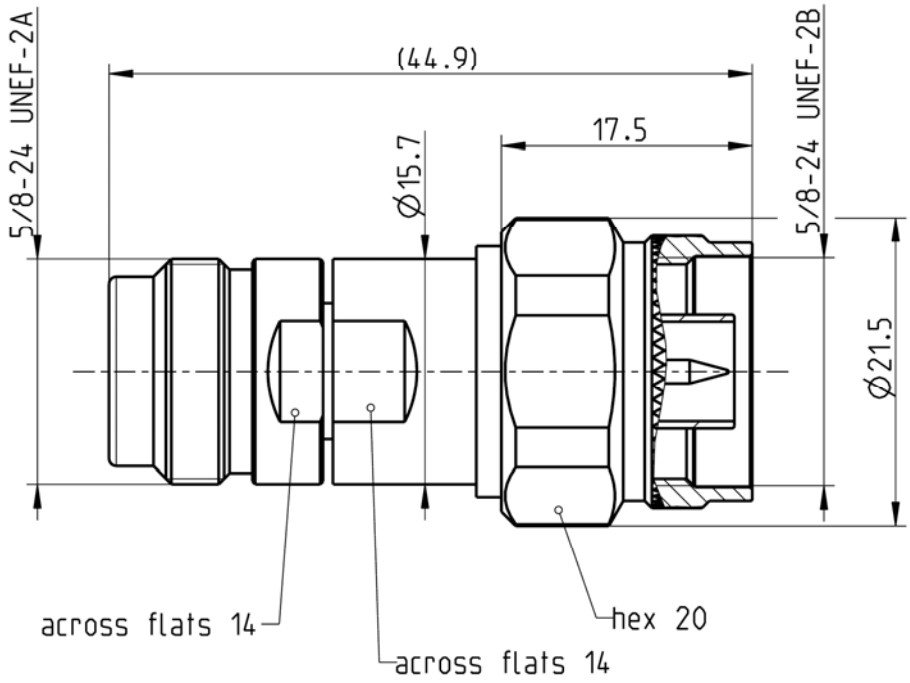
Technical Data Sheet	Rosenberger
ADAPTOR SnapN 50Ω JACK - RPC-N 50Ω PLUG	**53QK105-S00S3**





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

Interface

RPC-N according to: IEC 60169-16 ; CECC 22 210 ; MIL-STD 348A/304

Documents

N/A

Material and plating

Connector parts	Material	Plating
Center contact	Beryllium copper	Gold, min. 1.27 µm, over chemical nickel
Outer contact	Stainless steel	Passivated
Coupling nut	Stainless steel	Passivated
Dielectric	PPE	

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Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 28 dB, DC to 11 GHz ≥ 26 dB, 11 GHz to 18 GHz
Insertion loss	≤ 0.05 dB x $\sqrt{f\ [GHz]}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1 mΩ
Outer contact resistance	≤ 1 mΩ
Test voltage (at sea level)	2500 V rms
Working voltage (at sea level)	500 V rms
RF-leakage	≥ 90 dB @ DC to 1 GHz

Mechanical data

Mating cycles RPC-N	≥ 500
Mating cycles SnapN	≥ 200
Center contact captivation	≥ 28 N
Coupling test torque RPC-N	1.70 Nm
Recommended torque RPC-N	0.70 Nm to 1.10 Nm
Engagement force SnapN	30 N typical
Disengagement force SnapN	30 N typical

Environmental data

Temperature range	-40°C to +85°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture resistance	IEC 61169-1, Subclause 9.4.3
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight	49.5 g/pce

Draft	Date	Approved	Date
Andreas Fellner	22/11/04	J_Gramsamer	31.03.15

Rev.	Engineering change number	Name	Date
c00	15-0397	J_Krautenbacher	31.03.15

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