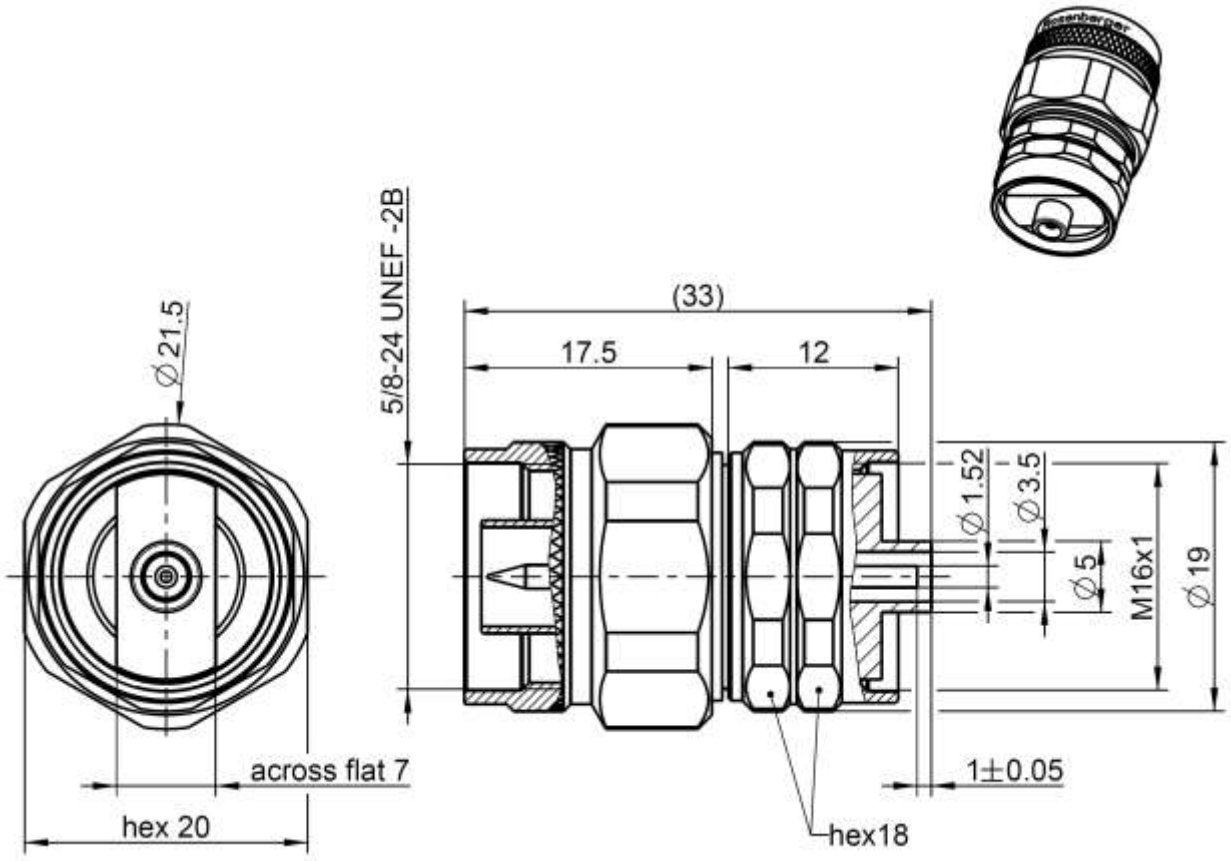
Technical Data Sheet	Rosenberger
Adaptor RPC-N 50 Ω Plug – RPC-SL Plug	**05S104-S0AS3**



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

Interface

RPC-N according to	IEC 61169-16 ; CECC 22 210 ; MIL-STD 348A/402
RPC-SL	Interchangeable port connector system

Documents

N/A

Material and plating

Connector parts	**Material**	**Plating**
Center contact	CuBe	Gold, min. 1.27 µm, over chemical nickel
Outer contact RPC-N	Stainless steel	Passivated
Outer contact RPC-SL	Stainless steel	Gold, 0.1 µm min.
Coupling nut	Stainless steel	Passivated
Dielectric	PPE	

Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel. : +49 8684 18-0
Email : info@rosenberger.de

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Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 21 dB, DC to 18 GHz
Insertion loss	≤ 0.05 x $\sqrt{f(GHz)}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance RPC-N	≤ 1.0 mΩ
Outer contact resistance RPC-N	≤ 1.0 mΩ
Center contact resistance RPC-SL	≤ 3.0 mΩ
Outer contact resistance RPC-SL	≤ 2.0 mΩ
Test voltage	1000 V rms
Working voltage	335 V rms
RF-leakage	≥ 90 dB up to 1 GHz

Mechanical data

Mating cycles RPC-N	≥ 500
Mating cycles RPC-SL	≥ 3000
Center contact captivation	≥ 28 N
Coupling test torque RPC-N	1.70 Nm
Recommended torque RPC-N	0.70 Nm to 1.10 Nm
Recommended torque RPC-SL	2 Nm

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

Packing

Standard	1 pce in box
Weight	37.7 g/pce

Draft	Date	Approved	Date
Scherbauer M.	05.12.14	Andorfer S.	05.09.18

Rev.	Engineering change number	Name	Date
a00	18-s320	Plötz A.	04.09.18

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