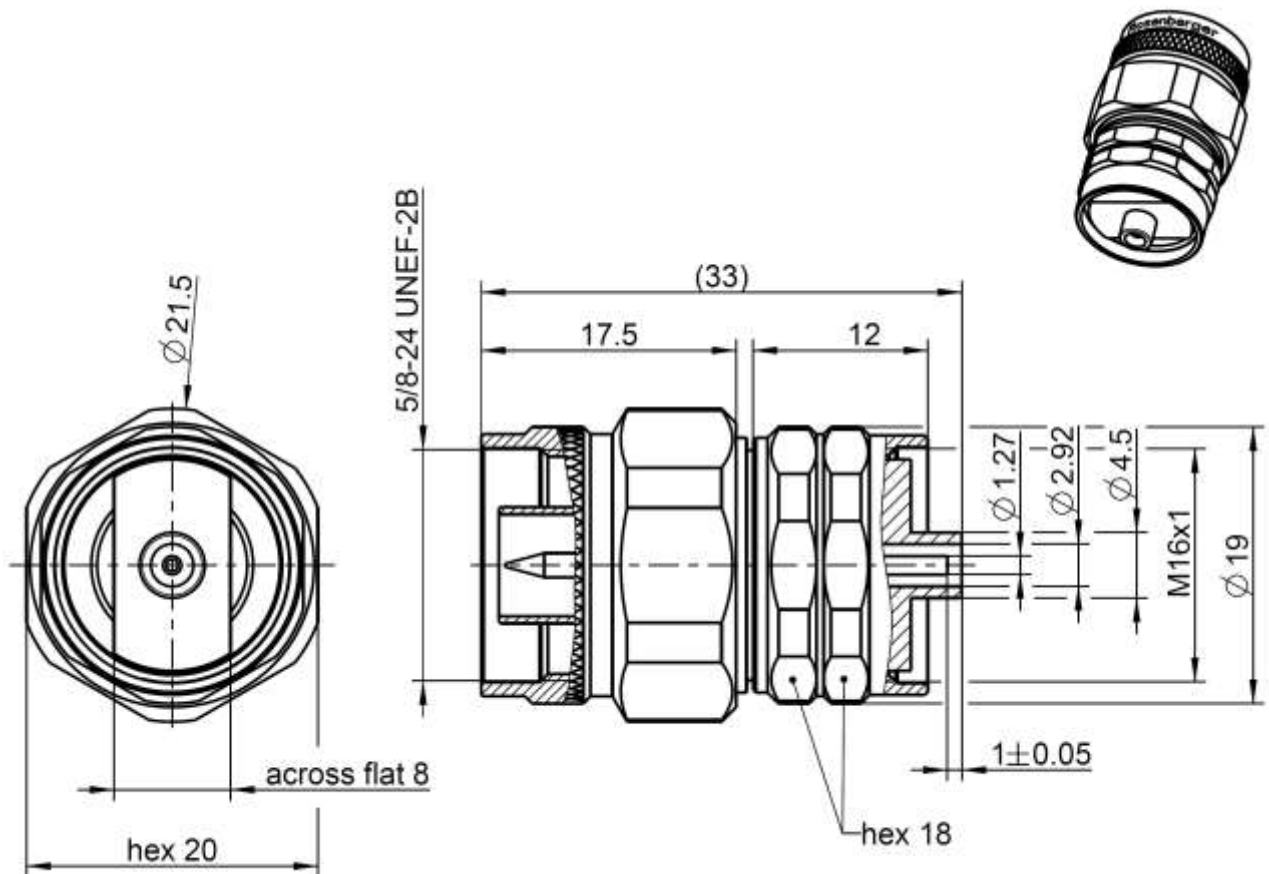


Technical Data Sheet

Rosenberger

Adaptor
RPC-N 50 Ω Plug – RPC-SL Plug

05S1P4-S0AS3



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

Interface

RPC-N according to
RPC-SL

IEC 61169-16 ; CECC 22 210 ; MIL-STD 348A/402
Interchangeable port connector system

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact RPC-N
Outer contact RPC-SL
Coupling nut
Dielectric

Material

CuBe
Stainless steel
Stainless steel
Stainless steel
PPE

Plating

Gold, min. 1.27 μ m, over chemical nickel
Passivated
Gold, 0.1 μ m min.
Passivated

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RF_35/05.10/6.1

Technical Data Sheet				Rosenberger			
Adaptor RPC-N 50 Ω Plug – RPC-SL Plug				05S1P4-S0AS3			
Electrical data							
Impedance	50 Ω						
Frequency	DC to 18 GHz						
Return loss	≥ 21 dB, DC to 18 GHz						
Insertion loss	≤ 0.05 x √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	750 V rms						
Working voltage	250 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	38.3 g/pce						
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