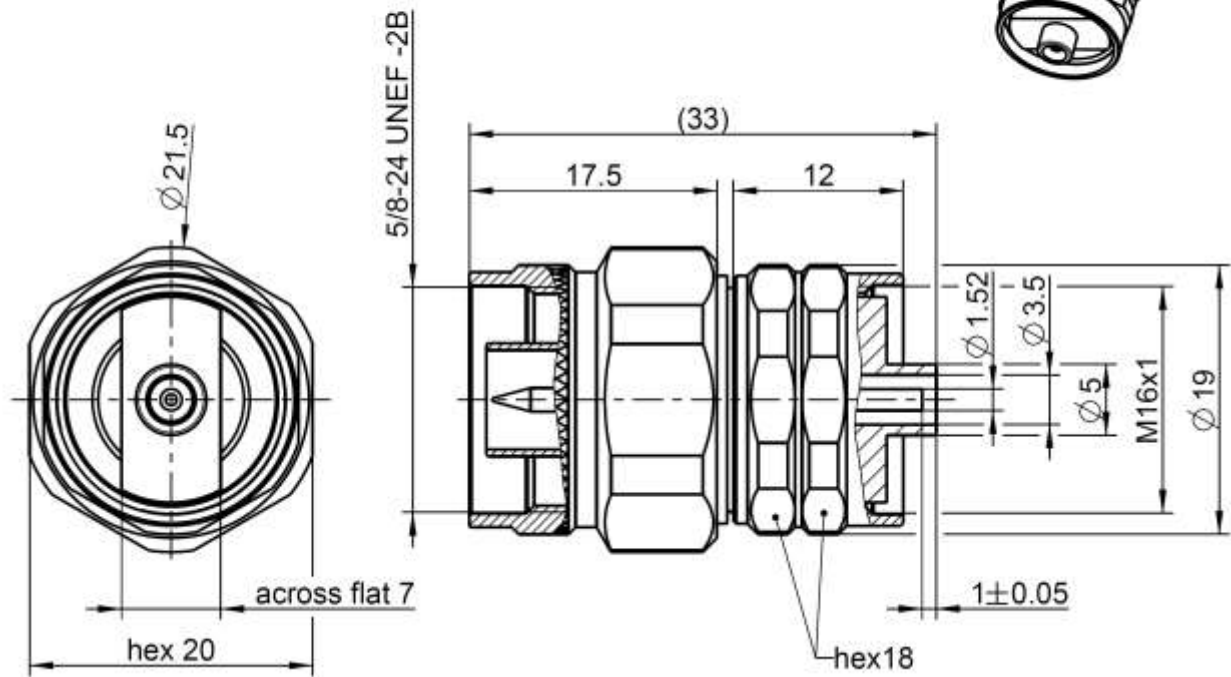




All dimensions are in mm; tolerances according to ISO 2768 m-H

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 µm, over chemical nickel
Passivated
Gold, 0.1 µm min.
Passivated

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Technical Data Sheet				Rosenberger			
Adaptor RPC-N 50 Ω Plug – RPC-SL Plug				05S104-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		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					
While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.							
Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Scherbauer M.	05.12.14	Andorfer S.	05.09.18	a00	18-s320	Plötz A.	04.09.18
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