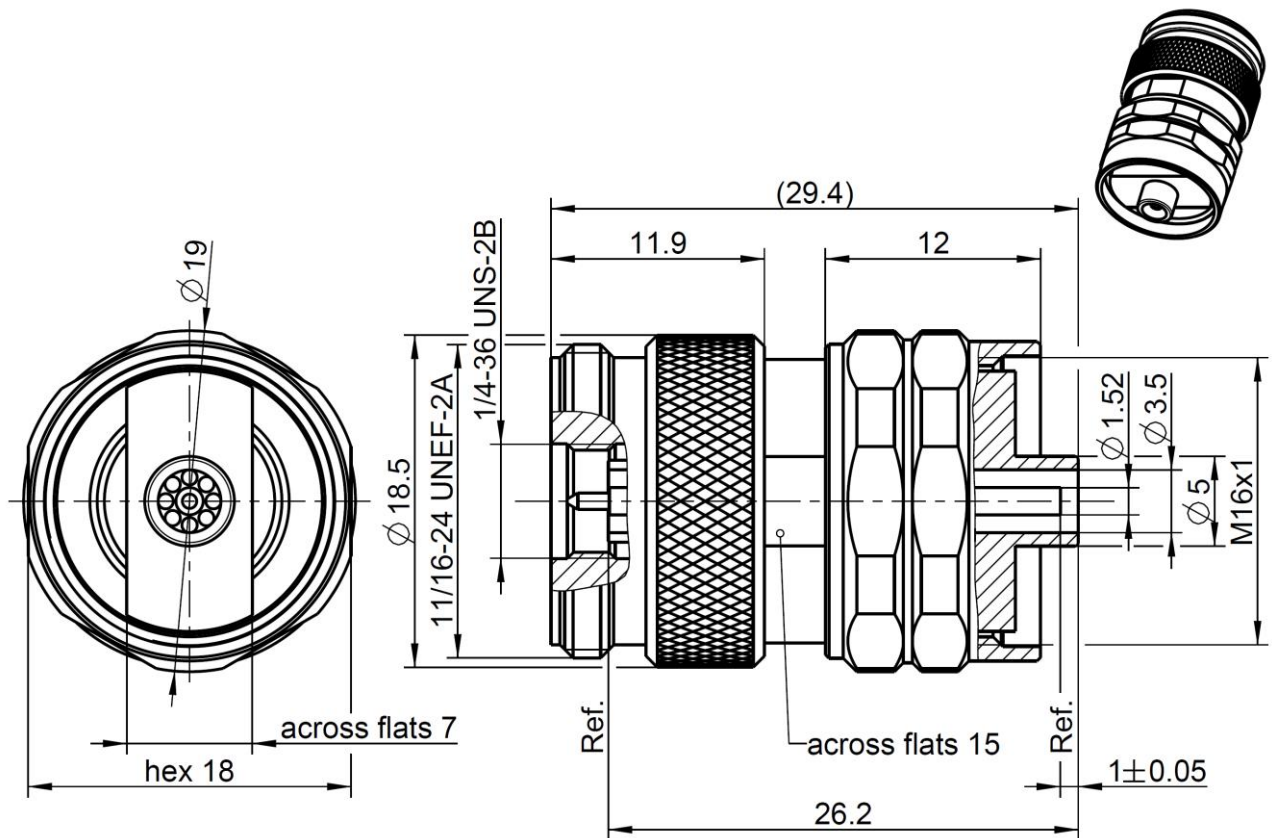




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

RPC-3.50 according to
RPC-3.50 mechanically compatible with
RPC-SL

IEC 60169-23
RPC-2.92 and SMA
Interchangeable port connector system

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact RPC-3.50
Outer contact RPC-SL
Coupling nut
Dielectric

Material

CuBe
Stainless steel
Stainless steel
Stainless steel
PS

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated
Gold, 0.1 µm min.
Passivated

Technical Data Sheet				Rosenberger			
Adaptor RPC-3.50 Plug – RPC-SL Plug				03S104-S0AS3			
Electrical data							
Impedance	50 Ω						
Frequency	DC to 26.5 GHz						
Return loss	≥ 21 dB, DC to 26.5 GHz						
Insertion loss	≤ 0.04 x √f(GHz) dB						
Insulation resistance	≥ 5 GΩ						
Center contact resistance	≤ 3.0 mΩ						
Outer contact resistance	≤ 2.0 mΩ						
Test voltage	1000 V rms						
Working voltage	335 V rms						
RF-leakage	≥ 100 dB up to 1 GHz						
Mechanical data							
Mating cycles RPC-3.50	≥ 500						
Mating cycles RPC-SL	≥ 3000						
Center contact captivation	≥ 27 N						
Coupling test torque RPC-3.50	1.70 Nm						
Recommended torque RPC-3.50	0.80 Nm to 1.10 Nm						
Recommended torque RPC-SL	2 Nm						
Environmental data							
Temperature range	-40°C to +85°C						
Thermal shock	MIL-STD-202, Method 107, Condition B						
Corrosion	MIL-STD-202, Method 101, Condition B						
Vibration	MIL-STD-202, Method 204, Condition D						
Shock	MIL-STD-202, Method 213, Condition I						
Moisture resistance	MIL-STD-202, Method 106						
RoHS	compliant						
Tooling							
N/A							
Suitable cables							
N/A							
Packing							
Standard	1 pce in box						
Weight	39.3 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
M. Scherbauer	05.12.14	S. Andorfer	04.09.18	a00	18-s320	M. Knoll	04.09.18
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