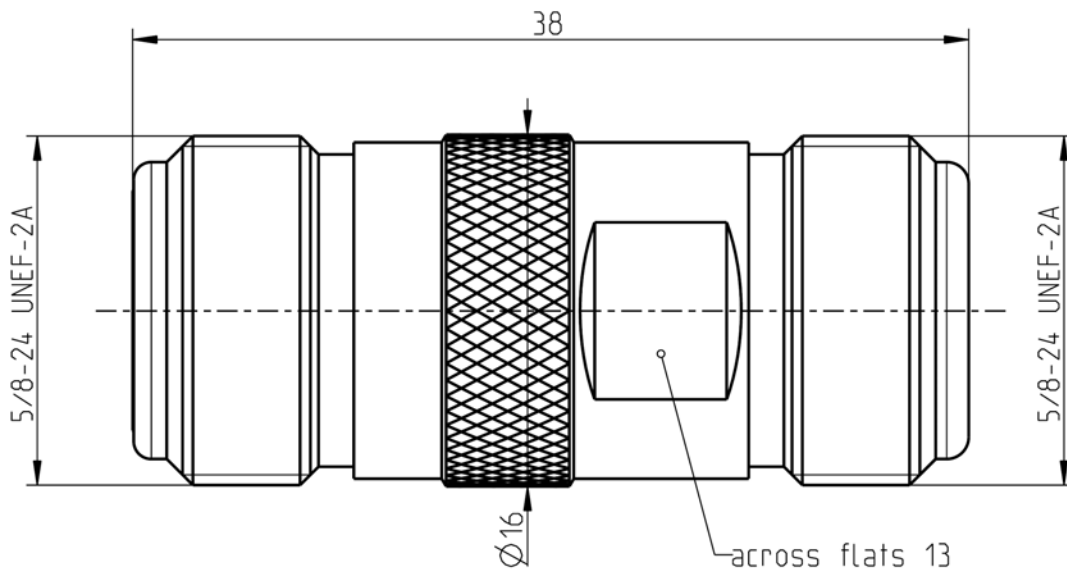




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

IEC 61169-16, MIL-PRF-39012, CECC 22210

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

Spring bronze
Brass
PTFE

Plating

AuroDur®, gold plated
Flash white bronze over silver(e.g. Optargen®)

Technical Data Sheet				Rosenberger			
N 50 Ω		Adaptor Jack – Jack		53K102-K00N5			
Electrical data							
Impedance		50 Ω					
Frequency		DC to 11 GHz					
Return loss		≥ 32 dB @ DC to 2 GHz					
		≥ 25 dB @ 2 GHz to 4 GHz					
		≥ 22 dB @ 4 GHz to 9 GHz					
Insertion loss		≤ 0.1 x √f [GHz] dB					
Insulation resistance		≥ 5 GΩ					
Center contact resistance		≤ 1 mΩ					
Outer contact resistance		≤ 0.25 mΩ					
Test voltage (at sea level)		2500 V rms					
Working voltage (at sea level)		1400 V rms					
Power handling (at 20 °C, sea level, VSWR 1.0)		1000 W @ 1 GHz					
		700 W @ 2 GHz					
RF-leakage		≥ 128 dB @ DC to 1 GHz					
Intermodulation 3 rd order		≥ 158 dBc (2 x 43 dBm)					
Mechanical data							
Mating cycles		≥ 500					
Center contact captivation: axial		≥ 28 N					
Coupling test torque		≤ 1.7 Nm					
Recommended torque		0.7 Nm to 1.1 Nm					
Environmental data							
Temperature range		-45 °C to +85 °C					
Thermal shock		MIL-STD-202, Method 107, Condition B					
Corrosion resistance		MIL-STD-202, Method 101, Condition B					
Vibration		MIL-STD-202, Method 204, Condition B					
Shock		MIL-STD-202, Method 213, Condition I					
Moisture resistance		MIL-STD-202, Method 106					
Degree of protection (mated pair)		IEC 60529, IP67					
RoHS		compliant					
Weight							
Weight		42.7 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
M. Wimmer	22/01/13	Sa. Krautenbacher	18.03.14	b00	14-0352	T. Krojer	18.03.14
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