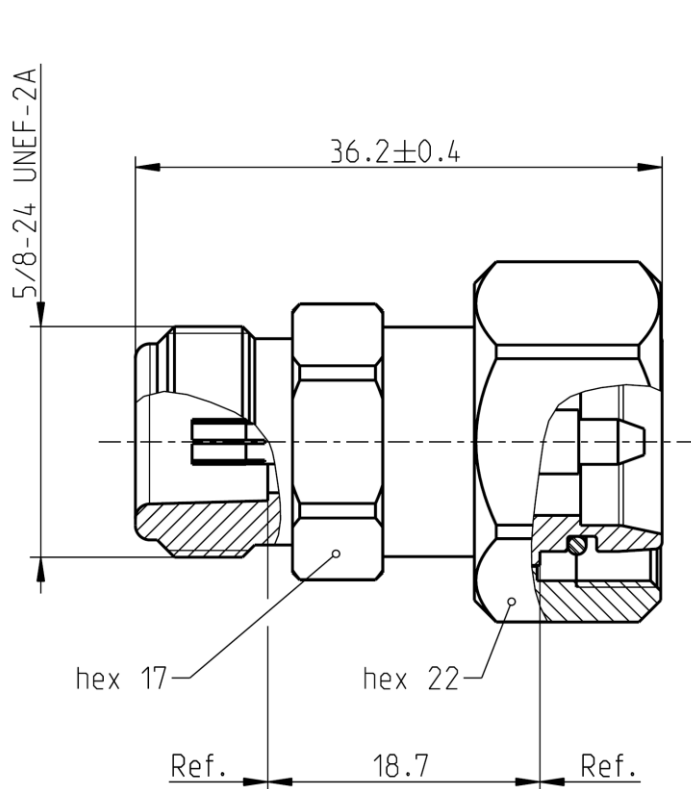




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to 4.3-10 side: IEC 61169-54
N side: IEC 61169-16, MIL-PRF-39012, CECC 22210

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Body
Dielectric
Gasket

Material

CuBe
Brass
Brass
PTFE
Silicone

Plating

Silver, 3-6 μm
Flash white bronze over silver(e.g. Optargen®)
Flash white bronze over silver(e.g. Optargen®)

Technical Data Sheet				Rosenberger			
N 50 Ω		Adaptor N Jack – 4.3-10 Plug		53K164-S00N1			
Electrical data							
Impedance		50 Ω					
Frequency		DC to 12 GHz					
Return loss		≥ 36 dB @ DC to 1 GHz					
		≥ 30 dB @ 1 GHz to 4 GHz					
		≥ 25 dB @ 4 GHz to 6 GHz					
Insertion loss		≤ 0.03 x √ f [GHz] dB					
Insulation resistance		≥ 5 GΩ					
Center contact resistance		≤ 1.0 mΩ, 4.3-10 side		≤ 1.0 mΩ, N side			
Outer contact resistance		≤ 1.0 mΩ, 4.3-10 side		≤ 0.25 mΩ, N side			
Test voltage		2500 V rms					
Working voltage		500 V rms					
RF-leakage		≥ 128 dB @ DC to 1 GHz					
Power handling (at 20 °C, sea level, VSWR 1.0)		1000 W @ 1 GHz					
		700 W @ 2 GHz					
Intermodulation (3 rd order)		≥ 168 dBc (2 x 43 dBm)					
Mechanical data							
		4.3-10 side		N side			
Mating cycles		≥ 100		min. 500			
Center contact captivation: axial		≥ 30 N		≥ 28 N			
		radial		≥ 3 Ncm			
Center contact retention force		1.5 N – 20 N					
Recommended torque		5 Nm		0.7 to 1.1 Nm			
Environmental data							
Temperature range		-55 °C to +90 °C operating temperature					
Thermal shock		IEC 60169-1, Sub-clause 16.4					
Corrosion resistance		ISO 21207 method B					
Vibration		IEC 61169-1 9.3.3 and IEC 60068-2-64					
Shock		IEC 61169-1 9.3.14					
Degree of protection (mated pair)		IEC 60529, IP68 1h / 25m					
RoHS		compliant					
Tooling							
		N/A					
Suitable cables							
		N/A					
Weight							
Weight		57 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. For the installation of the electrotechnical equipment, particular electrotechnical expertise is required. 							
Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
F. Fraunhofer	04.02.13	F. Fraunhofer	07.03.22	f00	22-0461	S. Huber-Siegl	07.03.22
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