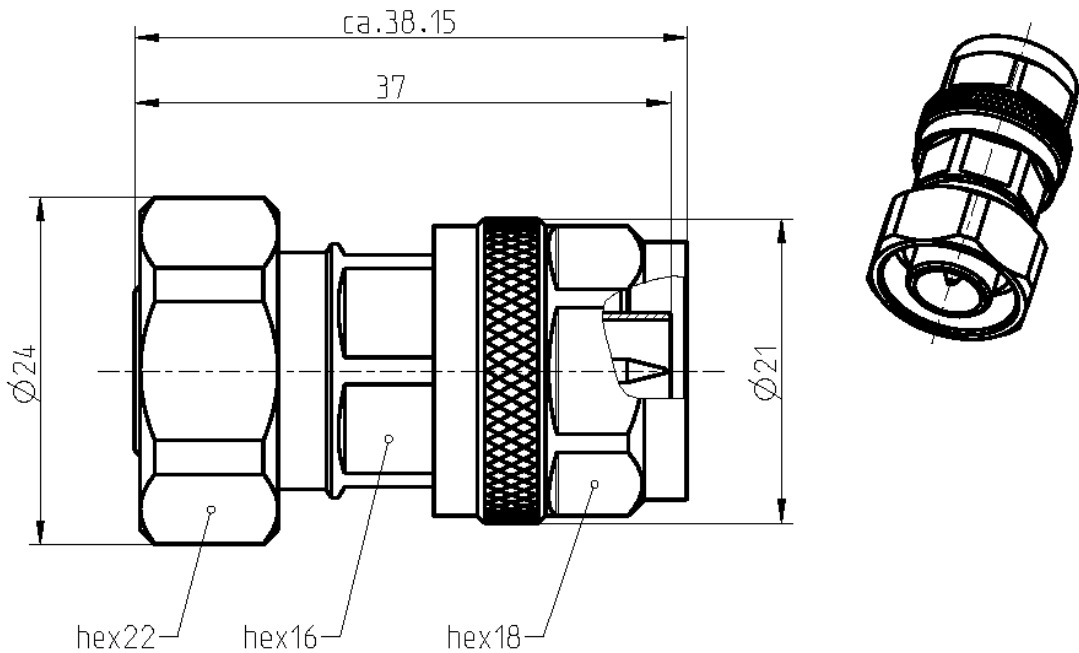


N 50 Ω
4.1-9.5

ADAPTOR
N Plug - 4.1/9.5 PLUG

53S165-SIMN1



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

Interface

According to	N side:	IEC 61169-16, MIL-PRF-39012, CECC 22210
	4.1/9.5 side:	IEC 60169-11, DIN 47231

Material and plating

Connector parts

Center contact
Outer contact
Dielectric
Gasket

Material

Brass
Brass
PTFE
Silicone

Plating

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

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N 50 Ω
4.1-9.5 ADAPTOR
N Plug - 4.1/9.5 PLUG

53S165-SIMN1

Electrical data

Impedance 50 Ω
 Frequency DC to 11 GHz
 Return loss ≥ 35 dB @ DC to 2.0 GHz
 ≥ 30 dB @ 2.0 GHz to 6.0 GHz
 Insertion loss ≤ 0.02 x √f [GHz] dB
 Insulation resistance ≥ 5 GΩ
 Center contact resistance ≤ 1 mΩ
 Outer contact resistance ≤ 0.25 mΩ
 Working voltage (at sea level) 500 V rms
 Power handling (at 20 °C, sea level, VSWR 1.0) 1000 W @ 1 GHz
 700 W @ 2 GHz
 RF-leakage ≥ 114 dB @ DC to 1 GHz
 Intermodulation (3rd order) ≥ 168 dBc (2 x 43 dBm)

Mechanical data

Mating cycles ≥ 500
 Coupling nut retention N ≥ 450 N
 4.1/9.5 ≥ 500 N
 Center contact captivation: axial ≥ 80 N
 Coupling torque (recommended) N 0.7 Nm to 1.1 Nm
 4.1/9.5 10 Nm
 Proof torque N 1.7 Nm
 4.1/9.5 15 Nm

Environmental data

Temperature range -55 °C to +155 °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, IP68 2.5 bar 1 h
 RoHS compliant

Weight

Weight 53.7 g/pc

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	02.10.2013	J_Gramsamer	20.04.15	400	15-0397	J_Krautenb.	20.04.15
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							Page 2 / 2

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