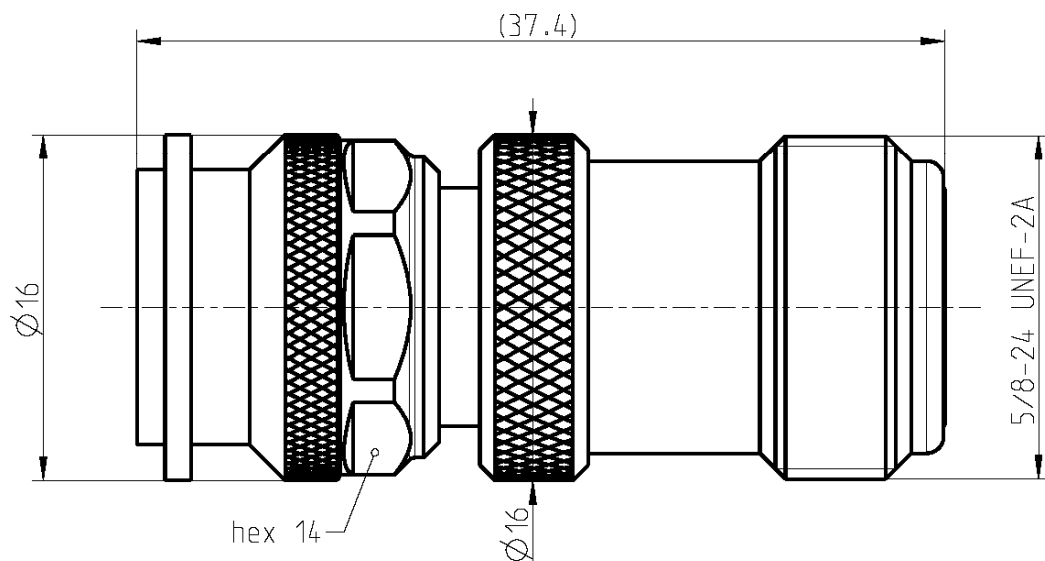
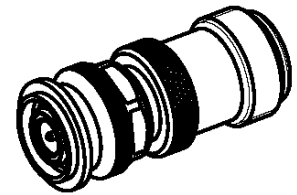




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to	TNC side	IEC 60169-17, MIL-PRF-39012, DIN EN 122200
	N side	IEC 61169-16, MIL-PRF-39012, CECC 22210

Documents

N/A

Material and plating

Connector parts

Center contact TNC and N side
Outer contact TNC and N side
Body
Dielectric
Gasket

Material

CuBe
Brass
Brass
PTFE
NeopreneCR 50C6

Plating

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

Technical Data Sheet

Rosenberger

ADAPTOR
TNC 50Ω Plug - N 50Ω Jack

56S153-K00N5

Electrical data

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 35 dB @ DC to 1 GHz ≥ 30 dB @ 1 GHz to 2.5 GHz ≥ 26 dB @ 2.5 GHz to 3 GHz
Insertion loss	≤ 0.05 x $\sqrt{f \text{ [GHz]}}$ dB, DC to 3 GHz
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1.5 mΩ TNC side ≤ 1 mΩ N side
Outer contact resistance	≤ 1 mΩ TNC side ≤ 0.25 mΩ N side
Test voltage (at sea level)	1500 V rms
Working voltage (at sea level)	500 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	80 W @ 2 GHz

Mechanical data

	TNC side	N side
Mating cycles	≥ 500	≥ 500
Center contact captivation: axial	≥ 28 N	≥ 28 N
Coupling test torque	≤ 1.7 Nm	≤ 1.7 Nm
Recommended torque	0.46 Nm to 0.69 Nm	0.7 Nm to 1.1 Nm

Environmental data

Temperature range	-55 °C to +155 °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 B
Shock	MIL-STD-202, Method 213, Condition G
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	1 pce in bags
Weight	33.6 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
Rong Fang	21.04.05	A. Gasteiger	13.08.13	d00	07-0154	J. Krautenbacher	13.08.13
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