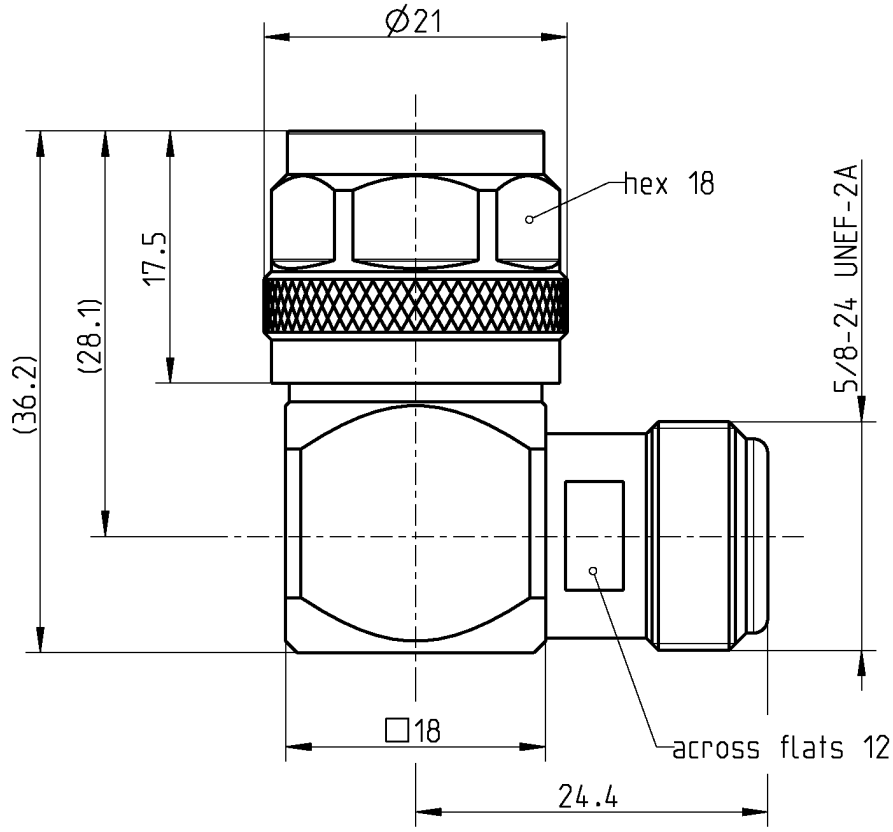
TECHNICAL DATA SHEET

Rosenberger

ADAPTOR
N 50 Ω PLUG – JACK ; right angle

53S201-K00N5





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

Interface

According to: IEC 60169-16, MIL-PRF-39012, CECC 22210

Documents

N/A

Material and plating

Connector parts	Material	Plating
Center contact plug side	Brass	AuroDur®, gold plated
Center contact jack side	CuBe	AuroDur®, gold plated
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Body	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PTFE	
Gasket	Silicone	

RF_35/11.05/3.1

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N 50 Ω PLUG – JACK ; right angle

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Electrical data

Impedance	50 Ω
Frequency	DC to 11 GHz
Return loss	≥ 35 dB, DC to 2 GHz ≥ 28 dB, 2 to 3 GHz ≥ 20 dB, 3 to 6 GHz
Insertion loss	$\leq 0.1 \times \sqrt{f\ [GHz]}$ dB
Insulation resistance	≥ 5 x10^3 MΩ
Center contact resistance	≤ 1 mΩ
Outer contact resistance	≤ 0.25 mΩ
Working voltage	500 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz 700 W @ 2 GHz
RF-leakage	≥ 128 dB up to 1 GHz
Intermodulation (3rd order)	≤ -115 dBm @ 2 x 20 W

Mechanical data

Mating cycles	min. 500
Coupling nut retention	≥ 450 N
Center contact captivation: axial	≥ 28 N
Coupling test torque	max. 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm

Environmental data

Temperature range	-55°C to +155°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight	77.0 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
Inge Mühlauer	08/06/04	J_Gramsamer	20.04.15

Rev.	Engineering change number	Name	Date
h00	15-0397	J_Krautenb.	20.04.15

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