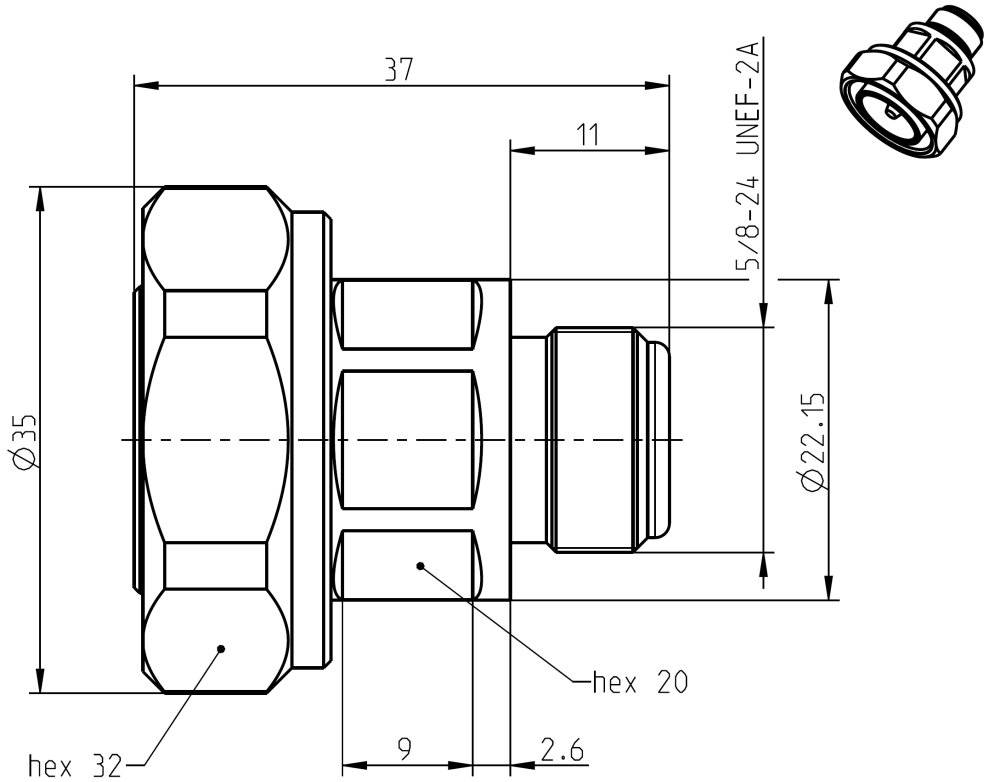
Technical Data Sheet		Rosenberger
7-16/N	Adaptor 7/16 Plug – N Jack	**60S153-KIMN1**



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
	7/16 side:	IEC 61169-4, EN 122190, DIN 47223

Material and plating

Connector parts	**Material**	**Plating**
Center contact	CuBe or equiv.	Silver, 3-6 µm
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PTFE	
Gasket	Silicone	

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Electrical data

Impedance	50 Ω
Frequency	DC to 7.5 GHz
Return loss	≥ 30 dB @ DC to 6 GHz ≥ 24 dB @ 6 GHz to 8.3 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f\,[GHz]}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1 mΩ
Outer contact resistance	≤ 1.5 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	≥ 128 dB @ DC to 1 GHz
Intermodulation (3rd order)	≤ -128 dBm @ 2 x 20 W

Mechanical data

	N side	7/16 side
Mating cycles	≥ 500	≥ 500
Coupling nut retention	N/A	≥ 1000 N
Center contact captivation: axial	≥ 200 N	≥ 200 N
radial	≥ 2 Ncm	≥ 2 Ncm
Coupling torque (recommended)	0.7 to 1.1 Nm	25 to 30 Nm
Proof torque	≤ 1.7 Nm	≤ 35 Nm

Environmental data

Temperature range	-55 °C to +155 °C
Rapid change of temperature	DIN EN 122190, Sub-clause 4.6.7
Corrosion resistance	DIN EN 122190, Sub-clause 4.6.10
Vibration	DIN EN 122190, Sub-clause 4.6.3
Climatic category	DIN EN 122190, Sub-clause 4.6.5 (55/155/56)
Damp heat	DIN EN 122190 , Sub-clause 4.6.6
Degree of protection (mated pair)	IEC 60529, IP68 2.5 bar 1 h
RoHS	compliant

Weight

Weight	83.5 g/pce

Draft	Date	Approved	Date
Benjamin Kaindl	15.03.12	A. Gasteiger	05.05.2015

Rev.	Engineering change number	Name	Date
d00	15-0557	Nobis A.	05.05.2015

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