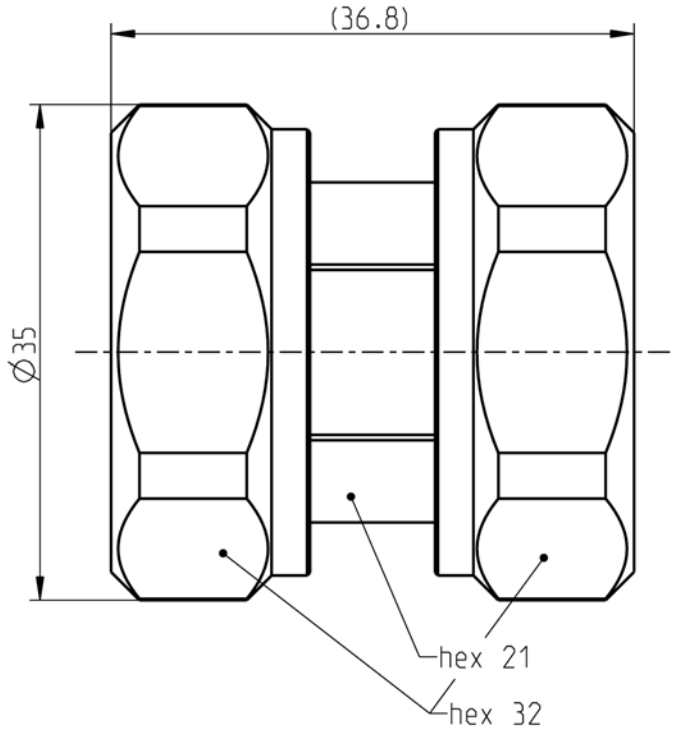
Technical Data Sheet - Draft		Rosenberger
7-16	Adaptor Plug - Plug	**60S101-SIMN1**



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

Interface

According to	IEC 61169-4, EN 122190, DIN 47223

Material and Plating

Connector parts	**Material**	**Plating**
Center contact	Brass	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	≥ 40 dB @ DC to 3 GHz ≥ 35 dB @ 3 GHz to 4.5 GHz ≥ 30 dB @ 4.5 GHz to 7.5 GHz ≥ 25 dB @ 7.5 GHz to 8.3 GHz
Insertion loss	$\leq 0.5 \times \sqrt{f\ [GHz]}$ dB
Insulation resistance	≥ 10 GΩ
Center contact resistance	≤ 0.4 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)	1800 W @ 1 GHz 800 W @ 4 GHz
RF-leakage	≥ 128 dB @ DC to 1 GHz
Intermodulation (3^{rd} order)	≤ -128 dBm @ 2 x 20 W

Mechanical Data

Mating cycles	≥ 500
Coupling nut retention	≥ 1000 N
Center contact captivation: axial	≥ 200 N
radial	≥ 2 Ncm
Coupling torque (recommended)	25 to 30 Nm
Proof torque	≤ 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 1h
RoHS	compliant

Weight

Weight	125 g/pc

Draft	Date	Approved	Date
Benjamin Kaindl	12.03.12	J_Gramsamer	01.04.15

Rev.	Engineering change number	Name	Date
b00	15-0397	J_Krautenb.	01.04.15

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