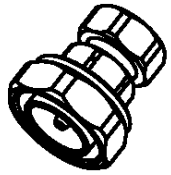
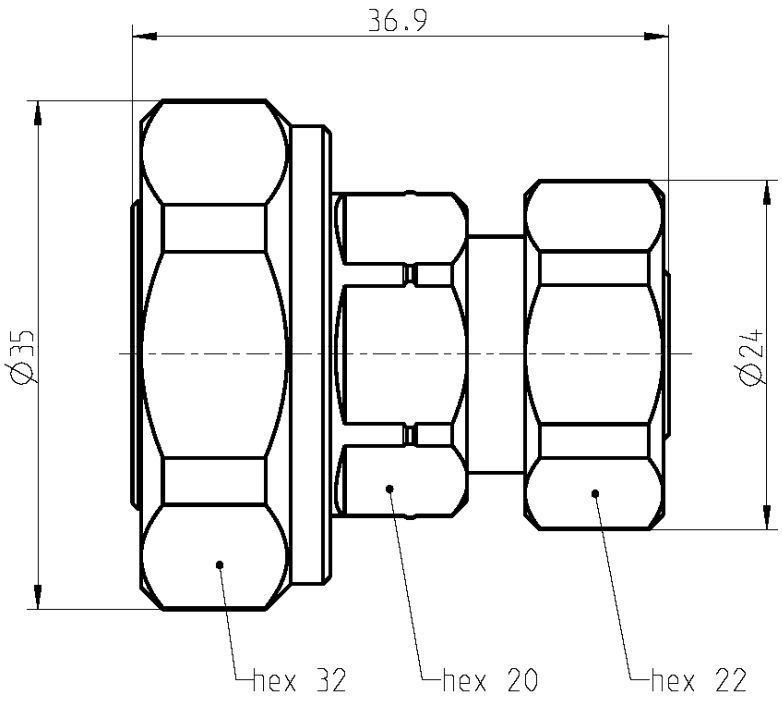
Technical Data Sheet		Rosenberger
4.1-9.5 7-16	ADAPTOR 4.1/9.5 PLUG - 7/16 PLUG	**60S165-SIMN1**





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

Interface

According to	4.1/9.5 side:	IEC 60169-11, DIN 47231
	7/16 side:	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		≥ 35 dB @ DC to 1 GHz ≥ 32 dB @ 1 GHz to 4 GHz ≥ 22 dB @ 4 GHz to 7.5 GHz
Insertion loss		$\leq 0.1 \times \sqrt{f\ [GHz]}$ 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 @ 2 GHz
RF-leakage		≥ 128 dB @ DC to 1 GHz
Intermodulation (3rd order)		≥ 168 dBc (2 x 43 dBm)

Mechanical data

Mating cycles		≥ 500
Center contact captivation: axial		≥ 200 N
radial		≥ 2 Ncm
Coupling torque (recommended)	4.1/9.5	10 Nm
	7/16	25 to 30 Nm
Proof torque	4.1/9.5	15 Nm
	7/16	≤ 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
RoHS	compliant

Weight

Weight	86.8 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.

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