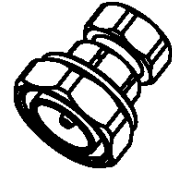
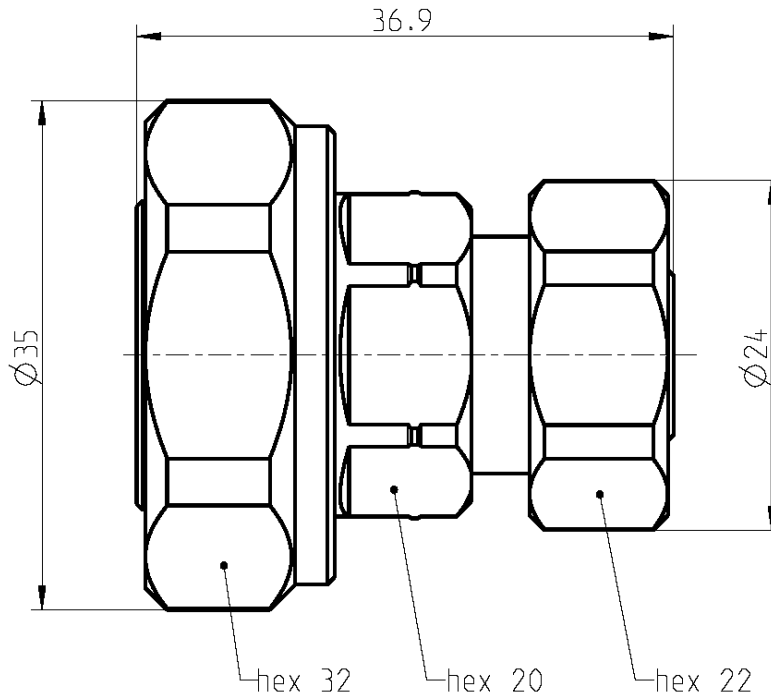


7-16  
4.1-9.5

Adaptor  
7-16 Plug – 4.1-9.5 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

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact	<b>Material</b>	Brass
Outer contact		Brass
Dielectric		PTFE
Gasket		Silicone

**Plating**

Silver, 3-6  $\mu\text{m}$   
Flash white bronze over silver(e.g. Optargen®)

7-16 Adaptor  
4.1-9.5 7-16 Plug – 4.1-9.5 Plug

**60S165-SIMN1**

**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 ≤ 0.1 x √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 (3<sup>rd</sup> 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

**Tooling**

N/A

**Suitable cables**

N/A

**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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
M. Wimmer	12.10.12	Chr. Janßen	02.03.21	d00	20-1927	S. Huber-Siegl	02.03.21

Rosenberger Hochfrequenztechnik GmbH & Co. KG  
 P.O.Box 1260 D-84526 Tittmoning Germany  
[www.rosenberger.com](http://www.rosenberger.com)

Tel. : +49 8684 18-0  
 Email : [info@rosenberger.com](mailto:info@rosenberger.com)

Page  
2 / 2