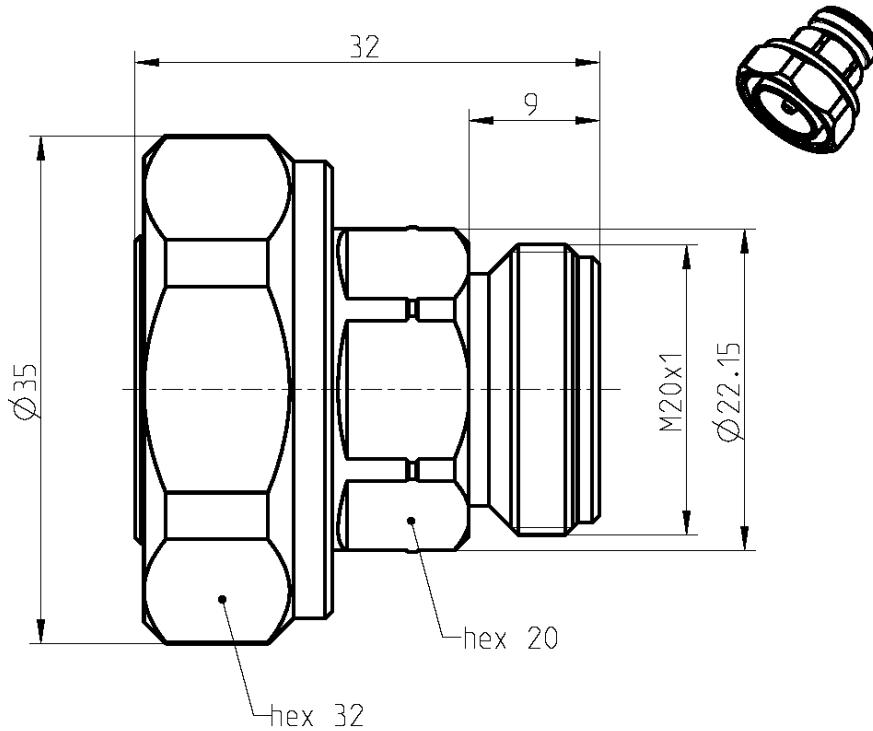


7-16  
4.1-9.5

Adaptor  
7-16 Plug – 4.1-9.5 Jack

**60S165-KIMN1**



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  
Outer contact  
Dielectric  
Gasket

**Material**

CuBe  
Brass  
PTFE  
Silicone

**Plating**

Silver, 3-6 µm  
Flash white bronze over silver(e.g. Optargen®)

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RFB00035/12.20/6.4

# Technical Data Sheet

# Rosenberger

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

## 60S165-KIMN1

### 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 77.74 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
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