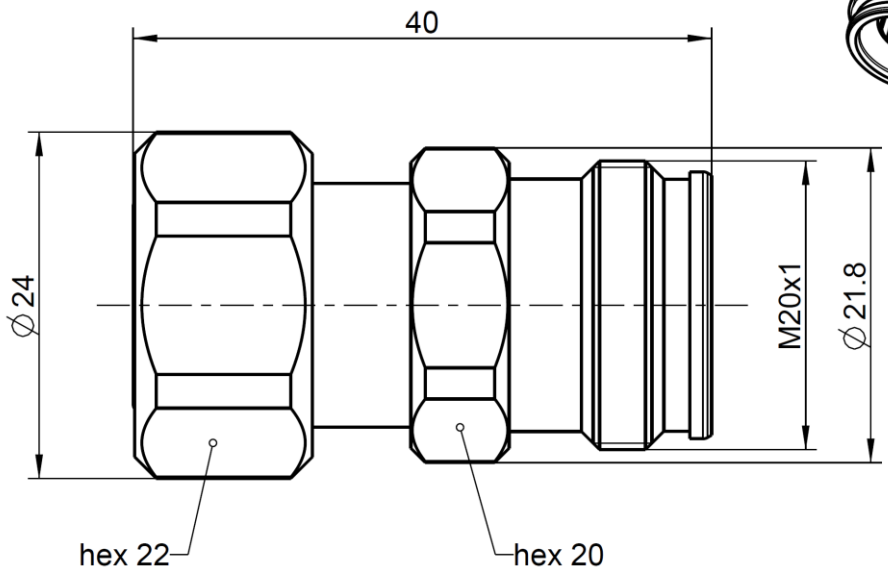
Technical Data Sheet		Rosenberger
4.3-10	Adaptor Plug screw type – Jack	**64S102-K00B1**



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

Interface

According to IEC 61169-54

Documents

N/A

Material and plating

Connector parts	Material	Plating
Center contact	CuBe	Silver, 3-6 µm
Outer contact jack side	Brass	Silver, 3-6 µm
Outer contact plug side	Brass	White bronze(e.g. Optalloy®)
Body	Brass	White bronze(e.g. Optalloy®)
Dielectric	PTFE	
Gasket	Silicone	

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Technical Data Sheet		Rosenberger
4.3-10	Adaptor Plug screw type – Jack	**64S102-K00B1**

Electrical data

Impedance	50 Ω
Frequency	DC to 12 GHz
Return loss	≥ 36 dB @ DC to 4 GHz ≥ 32 dB @ 4 GHz to 6 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f\,[GHz]}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1.0 mΩ
Outer contact resistance	≤ 1.0 mΩ
Working voltage	500 V rms
RF-leakage	≥ 110 dB @ DC to 6 GHz for tool tightened plugs ≥ 90 dB @ DC to 3 GHz for tool-less plugs ≥ 70 dB @ DC 3 to 6 GHz for tool-less plugs
Power handling (at 90 °C, altitude 3000m)	500 W @ 2.0 GHz
Intermodulation (3rd order)	≥ 160 dBc (2 x 46 dBm) @ 0.4 – 4.0 GHz ≥ 166 dBc (2 x 43 dBm) @ 0.4 – 4.0 GHz

Mechanical data

Mating cycles	≥ 100
Engagement force	typ. 100 N
Disengagement force	typ. 80 N
Recommended torque	5 Nm

Environmental data

Temperature range	-55 °C to +90 °C operating temperature
Thermal shock	IEC 61169-1 9.4.4
Corrosion resistance	ISO 21207 method B
Vibration	IEC 61169-1 9.3.3 and IEC 60068-2-64
Shock	IEC 61169-1 9.3.14
Degree of protection (mated pair)	IEC 60529, IP68 1h / 25m
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight	61.4 g/pce

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

Draft	Date	Approved	Date
F. Fraunhofer	19.09.18	Chr. Janßen	21.04.21

Rev.	Engineering change number	Name	Date
b00	20-1927	S. Huber-Siegl	21.04.21

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