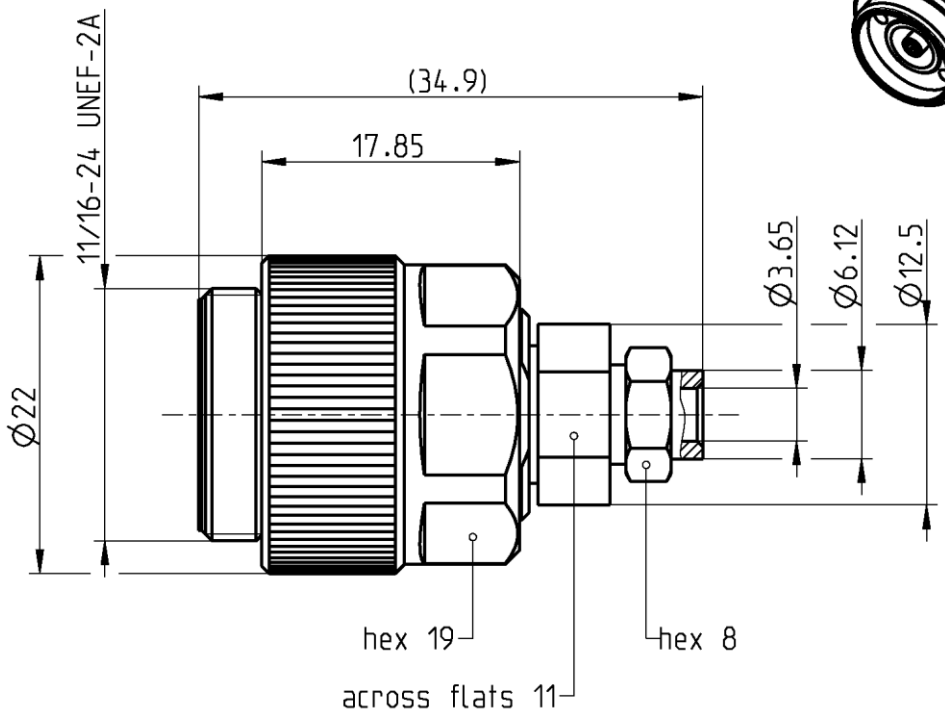
Technical Data Sheet		Rosenberger
RPC-7	Straight plug	**07P121-272S2**



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

Interface

According to	IEC 457-2

Documents

Assembly instruction	02 A3

Material and plating

Connector parts	**Material**	**Plating**
Center contact	CuBe	Gold, min. 1.27 µm, over chemical nickel
Outer contact	CuBe	Gold, min. 1.27 µm, over chemical nickel
Body	Stainless steel	Passivated
Dielectric	PPE	
Solder sleeve	Brass	Gold, 0.1 µm min.

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Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 26 dB, DC to 18 GHz
Insertion loss	≤ 0.05 x $\sqrt{f(GHz)}$ dB
Insulation resistance	≥ 5 GΩ
Test voltage (at sea level)	1000 V rms
Working voltage (at sea level)	335 V rms
RF-leakage	≥ 120 dB up to 1 GHz

- Limitations are possible due to the used cable type –

Mechanical data

Mating cycles	≥ 5000
Center contact captivation	≥ 28 N
Coupling test torque	1.95 Nm
Recommended torque	1.36 Nm

Environmental data

Temperature range	-40°C to +85°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant

Tooling

N/A

Suitable cables

UT 141 / RTK-FS 141 / RTK-Flex 402

Weight

47.2 g/pce

Draft	Date	Approved	Date
H. Babinger	05.08.04	F. Reiner	10.07.18

Rev.	Engineering change number	Name	Date
b01	18-1026	M. Ruf	06.07.18

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