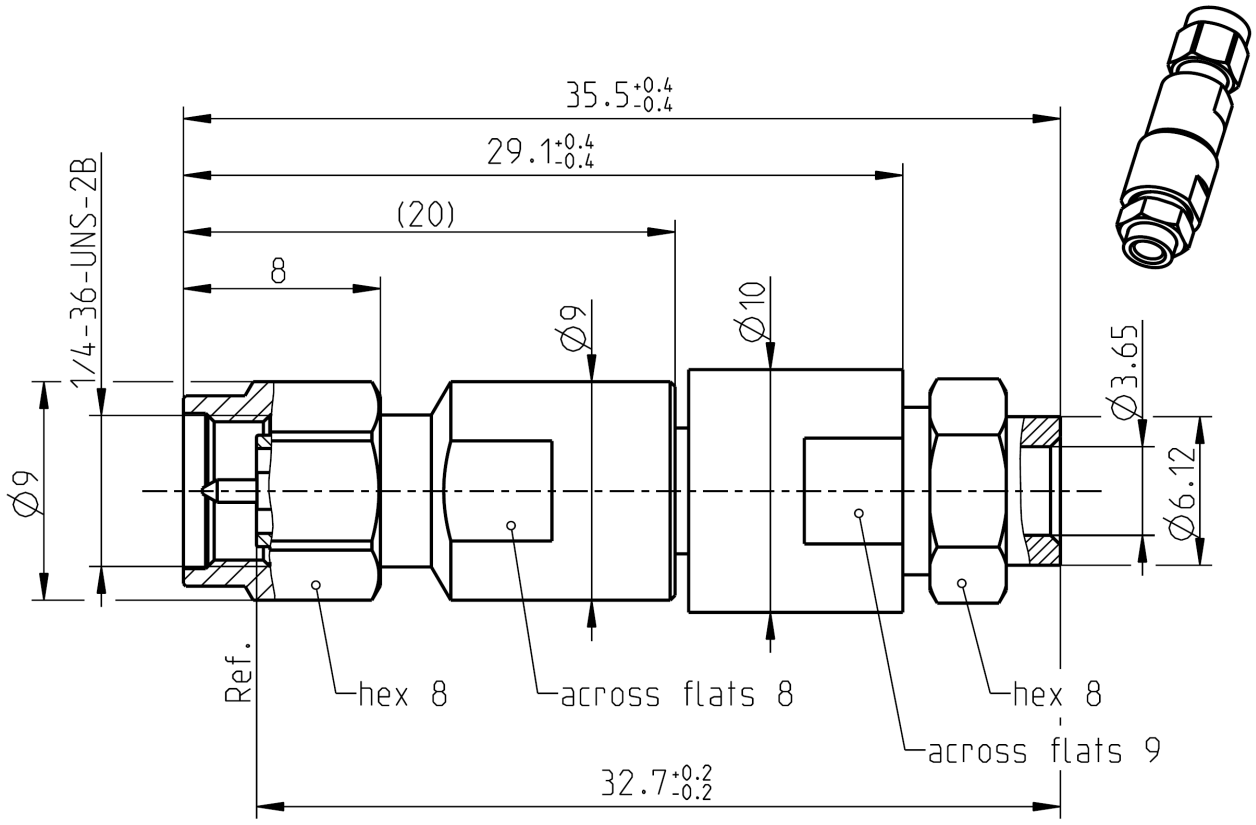
Technical Data Sheet		Rosenberger
RPC-3.50	Straight Plug	**03S121-272S3**



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

Interface

According to	IEC 60169-23
Mechanically compatible with	RPC-2.92 and SMA

Documents

Assembly instruction	03 A

Material and plating

Connector parts	**Material**	**Plating**
Center contact	CuBe	Gold, min. 1.27 µm, over chemical nickel
Outer contact	Stainless steel	Passivated
Coupling nut	Stainless steel	Passivated
Dielectric	COP	
Gasket	Silicone	
Solder sleeve	Brass	Gold, 0.1 µm min.

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Technical Data Sheet		Rosenberger
RPC-3.50	Straight Plug	**03S121-272S3**

Electrical data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
Return loss	≥ 25 dB, DC to 26.5 GHz
Insertion loss	≤ 0.03 x $\sqrt{f(GHz)}$ dB
Insulation resistance	≥ 5 GΩ
Proof voltage (at sea level)	1000 V rms
Working voltage (at sea level)	335 V rms
RF-leakage	≥ 100 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	≥ 500
Center contact captivation: axial	≥ 27 N
radial	≥ 0.01 Nm
Coupling test torque	1.70 Nm
Coupling torque recommended	0.80 Nm to 1.10 Nm

Environmental data

Temperature range	-40 °C to +125 °C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Tooling

N/A

Suitable cables

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

Weight

13.4 g/pce

Draft	Date	Approved	Date
Herbert Babinger	05.05.04	H. Babinger	02.03.21

Rev.	Engineering change number	Name	Date
d00	20-1016	A. Youmsi	02.03.21

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