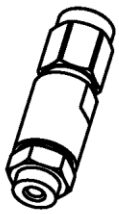
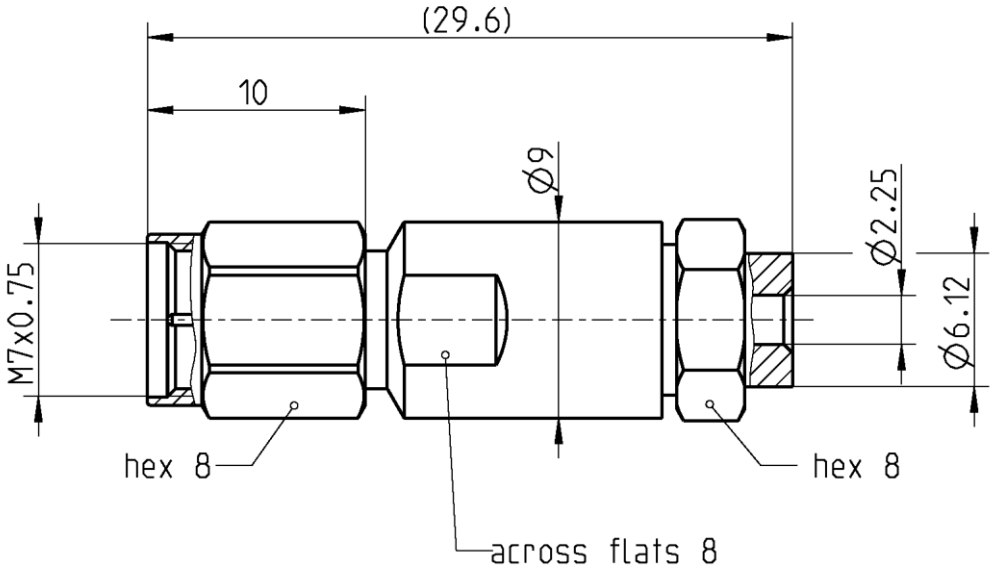
Technical Data Sheet		Rosenberger
RPC-1.85	Straight plug	**08S121-271S3**





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

Interface

According to	IEC 61169-32
Mechanically compatible with	RPC-2.40

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	Stainless steel	Passivated
Coupling nut	Stainless steel	Passivated
Dielectric	PEEK	
Solder sleeve	Brass	Gold, 0.1 µm min.

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Technical Data Sheet		Rosenberger
RPC-1.85	Straight plug	**08S121-271S3**

Electrical data

Impedance	50 Ω
Frequency	DC to 65 GHz
Return loss	≥ 20 dB, DC to 65 GHz
Insertion loss	≤ 0.05 x $\sqrt{f(GHz)}$ dB
Insulation resistance	≥ 5 GΩ
Test voltage (at sea level)	500 V rms
Working voltage (at sea level)	150 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	≥ 20 N
Coupling test torque	1.65 Nm
Recommended torque	0.80 Nm to 1.10 Nm

Environmental data

Temperature range	-40°C to +85°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture resistance	IEC 61169-1, Subclause 9.4.3
RoHS	compliant

Tooling

N/A

Suitable cables

UT 085 / RTK-FS 085 / RTK-Flex 405

Weight

11.4 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.

Draft	Date	Approved	Date
H. Babinger	25.08.04	F. Reiner	17.10.18

Rev.	Engineering change number	Name	Date
b02	18-0004	M. Knoll	17.10.18

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