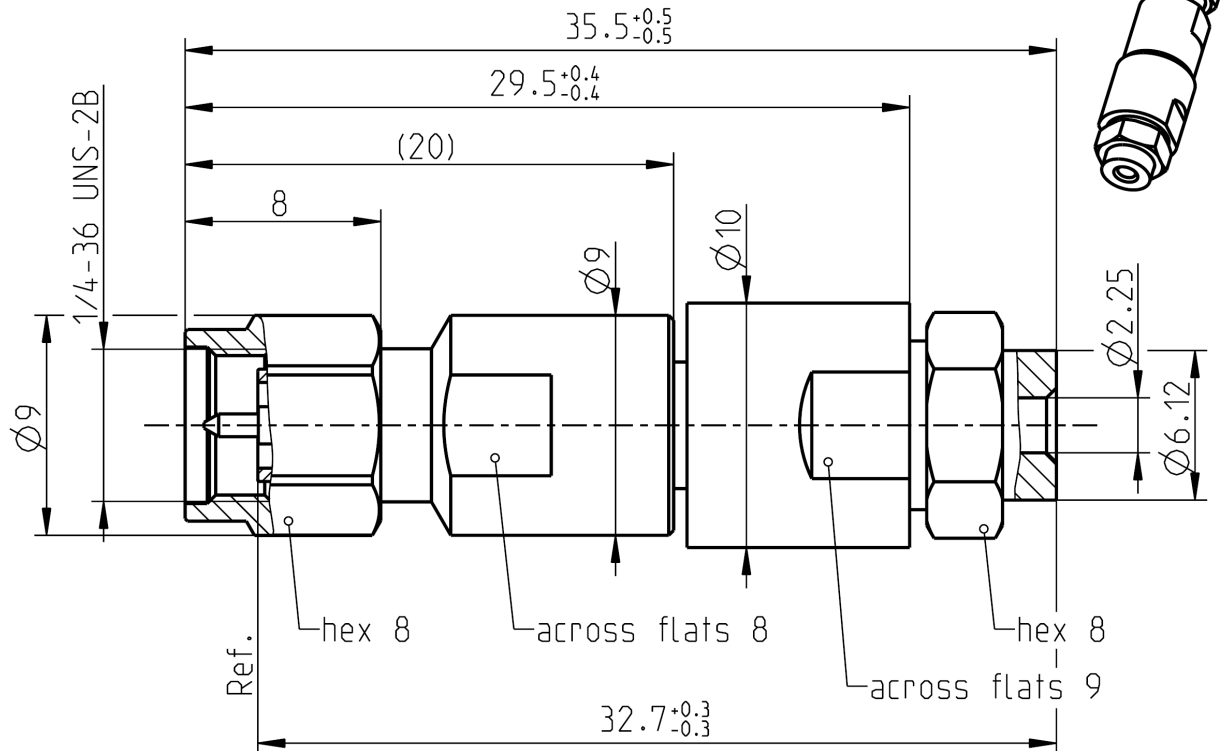




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to
Mechanically compatible with

IEC 60169-23
RPC-2.92 and SMA

Documents

Assembly instruction

02 A3

Material and plating

Connector parts

Center contact
Outer contact
Coupling nut
Dielectric
Gasket
Solder sleeve

Material

Beryllium copper
Stainless steel
Stainless steel
PS
Silicone
Brass

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated
Passivated

Gold, 0.1 µm min.

TECHNICAL DATA SHEET

Rosenberger

RPC-3.50

STRAIGHT PLUG

03S121-271S3

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 $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 3.0 mΩ
Outer contact resistance	≤ 2.0 mΩ
Test voltage	750 V rms
Working voltage	250 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	≥ 27 N
Coupling test torque	1.70 Nm
Recommended torque	0.80 Nm to 1.10 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
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

UT 85 / RTK-FS 085 / RTK-Flex 405

Packing

Standard	1 pce in bag
Weight	14.2 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	Rev.	Engineering change number	Name	Date
Herbert Babinger	05/05/04	Martin Moder	27/03/12	c00	12-0205	Maik Knoll	27/03/12
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