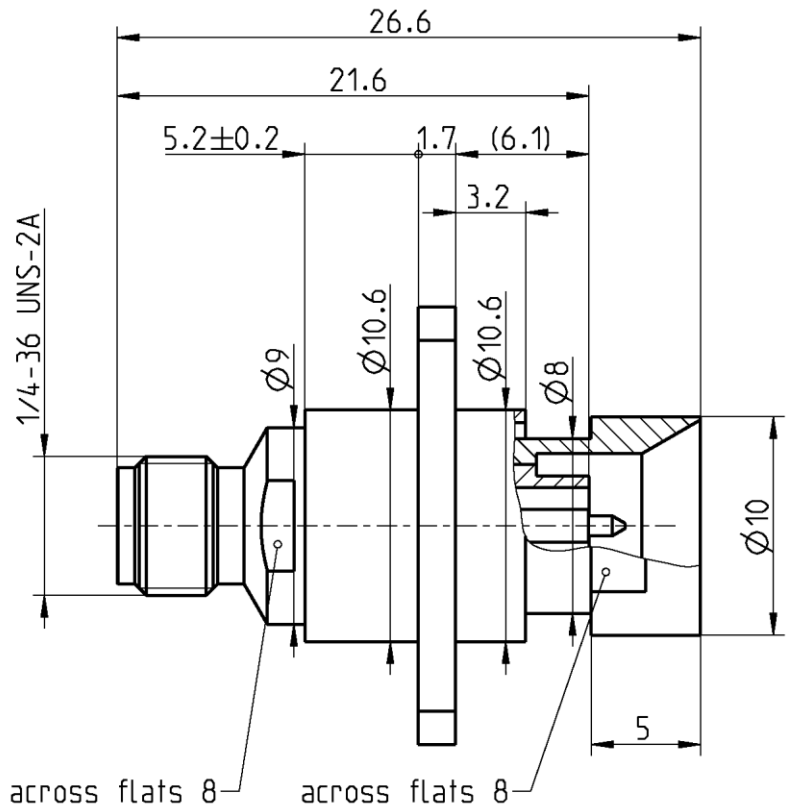
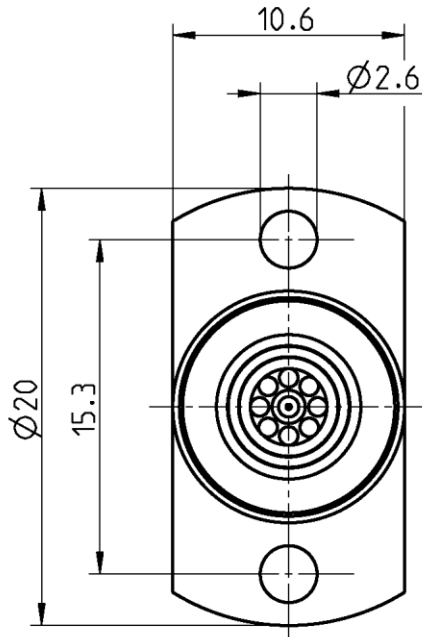
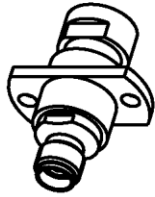


RPC-3.50

Floating Adaptor  
jack - plug

**03K721-S23S3**



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**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Flange  
Dielectric

**Material**

CuBe  
Stainless steel  
Brass  
PS

**Plating**

Gold, min. 1.27 µm, over chemical nickel  
Passivated  
Flash white bronze over silver(e.g. Optargen®)

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RF\_35/09.14/6.2

# Technical Data Sheet

# Rosenberger

RPC-3.50

Floating Adaptor  
jack - plug

03K721-S23S3

## Electrical data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
Return loss	≥ 26 dB, DC to 18 GHz ≥ 23 dB, 18 GHz to 26.5 GHz
Insertion loss	≤ 0.04 x √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	≥ 100 dB up to 1 GHz

## 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
Misalignment	radial 0.7 mm min
Spring force	min. 8 N at rest max. 15 N at max. spring travel
Spring travel	2.3 mm max.

## 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

N/A

## Weight

9.6 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
H. Babinger	13.05.04	F. Reiner	26.06.18	e01	18-1026	M. Ruf	25.06.18

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