



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

**Interface**

According to IEC 61169-40  
Mechanically compatible with RPC-1.85

**Documents**

Assembly instruction 02 A3

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Dielectric  
Solder sleeve

**Material**

CuBe  
Stainless steel  
PEEK  
Brass

**Plating**

Gold, min. 1.27 µm, over chemical nickel  
Passivated  
Gold, 0.1 µm min.

# Technical Data Sheet

# Rosenberger

RPC-2.40

Straight jack

09K121-271S3

## Electrical data

Impedance	50 Ω
Frequency	DC to 50 GHz
Return loss	≥ 23 dB, DC to 50 GHz
Insertion loss	≤ 0.05 x $\sqrt{f(\text{GHz})}$ 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 85, RG 405 /U, RTK-FS 085

## Weight

10.0 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	26.08.04	F. Reiner	20.06.18	c01	18-1026	M.Ruf	20.06.18

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