



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

**Interface**

According to IEC 61169-35  
 Mechanically compatible with RPC-3.50 and SMA

**Documents**

Assembly instruction 02 A11

**Material and plating**

**Connector parts**

- Center contact
- Outer contact
- Coupling nut
- Dielectric 1
- Dielectric 2
- Gasket
- Solder sleeve

**Material**

- Brass
- CuBe or equiv.
- CuBe or equiv.
- PS
- PTFE
- Silicone
- Brass

**Plating**

- AuroDur®, gold plated
- AuroDur®, gold plated
- Gold, 0.1  $\mu$ m min.
- Gold, 0.1  $\mu$ m min.

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RF\_35/05:10/6.0

# Technical Data Sheet

# Rosenberger

RPC-2.92    Straight plug

**02S141-270L5**

## Electrical data

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss	≥ 23 dB, DC to 20 GHz ≥ 21 dB, 20 GHz to 40 GHz
Insertion loss	≤ 0.04 x √f(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
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
RoHS	compliant

## Tooling

Insert tool	02W006-000
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## Suitable cables

UT 47, RTK 047

## Packing

Standard	1 pce in bag
Weight	3.9 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
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