



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

**Interface**

RPC-N according to  
RPC-SL

IEC 61169-16 ; CECC 22 210 ; MIL-STD 348A/402  
Interchangeable port connector system

**Documents**

N/A

**Material and plating**

**Connector parts**

- Center contact
- Outer contact RPC-N
- Outer contact RPC-SL
- Coupling nut
- Dielectric

**Material**

- CuBe
- Stainless steel
- Stainless steel
- Stainless steel
- PPE

**Plating**

- Gold, min. 1.27  $\mu$ m, over chemical nickel
- Passivated
- Gold, 0.1  $\mu$ m min.
- Passivated

# Technical Data Sheet

# Rosenberger

Adaptor  
RPC-N 50 Ω Plug – RPC-SL Plug

## 05S104-S0AS3

### Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 21 dB, DC to 18 GHz
Insertion loss	≤ 0.05 x √f(GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance RPC-N	≤ 1.0 mΩ
Outer contact resistance RPC-N	≤ 1.0 mΩ
Center contact resistance RPC-SL	≤ 3.0 mΩ
Outer contact resistance RPC-SL	≤ 2.0 mΩ
Test voltage	1000 V rms
Working voltage	335 V rms
RF-leakage	≥ 90 dB up to 1 GHz

### Mechanical data

Mating cycles RPC-N	≥ 500
Mating cycles RPC-SL	≥ 3000
Center contact captivation	≥ 28 N
Coupling test torque RPC-N	1.70 Nm
Recommended torque RPC-N	0.70 Nm to 1.10 Nm
Recommended torque RPC-SL	2 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

N/A

### Packing

Standard	1 pce in box
Weight	37.7 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
Scherbauer M.	05.12.14	Herbert Babinger	01.08.17	300	17-v521	Frank Tatzel	01.08.17
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>						Tel. : +49 8684 18-0 Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>	
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