



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

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RF\_35/05.10/6.1

# Technical Data Sheet

# Rosenberger

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

## 05S1P4-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	750 V rms
Working voltage	250 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	38.3 g/pce

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Scherbauer M.	05.12.14	Andorfer S.	05.09.18	a00	18-s320	Plötz A.	03.09.18

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Page  
2 / 2