



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

Interface

According to IEC 61169-16; MIL-STD 348A/402

Documents

Assembly instruction 02 A3
Panel piercing B 13

Material and plating

Connector parts

Center contact	Material	CuBe
Outer contact		Stainless steel
Dielectric		PPE
Gasket		NBR
Hexagon nut		Brass
Toothed lock washer		Stainless steel
Solder sleeve		Brass

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated
White bronze(e.g. Optalloy®)
Passivated
Gold, 0.1 µm min.

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RF_35/09:14/6.2

Technical Data Sheet

Rosenberger

RPC-N
50 Ω

Bulkhead jack

05K521-271S3

Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 25 dB, DC to 18 GHz
Insertion loss	≤ 0.03 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 GΩ
Test voltage (at sea level)	750 V rms
Working voltage (at sea level)	250 V rms
RF-leakage	≥ 90 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	≥ 500
Center contact captivation	≥ 28 N
Coupling test torque	1.70 Nm
Recommended torque	0.70 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 / RTK-FS 085 / RTK-Flex 405

Weight

53.9 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
H. Babinger	14.07.06	F. Reiner	17.10.19	d00	19-1952	A. Youmsi	17.10.19

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