



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

Interface

According to DIN EN 61169-8

Documents

Assembly instruction 51 E

Material and plating

Connector parts

Center contact	CuBe
Outer contact	Brass
Body	Brass
Dielectric	PTFE
Gasket	Silicone

Plating

AuroDur®, gold plated
Flash white bronze over silver(e.g. Optargen®)
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RFB00035/12.20/6.4

Technical Data Sheet

Rosenberger

BNC 50 Ω Straight Jack

51K106-002N5

Electrical data

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 25 dB, DC to 1 GHz ≥ 20 dB, 1 to 2 GHz
Insertion loss	≤ 0.05 x √ f [GHz] dB, DC to 2 GHz
Insulation resistance	≥ 5 x 10 ³ MΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 1 mΩ
Test voltage	1500 V rms
Working voltage	400 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 80 W @ 2 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 500
Center contact captivation: axial	≥ 15 N

Environmental data

Temperature range	-55°C to +155°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. G
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Tooling

N/A

Suitable cables

RG 174 A/U, RG 316 /U, RG 188 A/U

Weight

Weight 17.2 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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