



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

**Interface**

Compatible to IEC 61169-8, MIL-PRF-39012, CECC 22120

**Documents**

Assembly instruction 51 P

**Material and plating**

**Connector parts**

Connector parts	Material	Plating
Center contact	Spring bronze	AuroDur®, gold plated
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Body	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PTFE	
Crimping ferrule	Copper	Flash white bronze over silver(e.g. Optargen®)

# Technical Data Sheet

# Rosenberger

BNC 75 Ω Straight Jack

71K101-109N5

## Electrical data

Impedance	75 Ω
Frequency	DC to 4 GHz
Return loss	≥ 23 dB @ DC to 1 GHz ≥ 15 dB @ 1 GHz to 4 GHz
Insertion loss	≤ 0.05 x √ f [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 1 mΩ
Test voltage (at sea level)	1500 V rms
Working voltage (at sea level)	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	≥ 500
Center contact captivation: axial	≥ 15 N

## Environmental data

Temperature range	-45 °C to +85 °C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion resistance	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition G
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant

## Tooling

Crimping tool	11W150-000
Crimp insert	11W150-209

## Suitable cables

RG 59 B/U

## Weight

Weight	13.5g/pce
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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
Inge Mühlauer	20.07.04	Chr. Janßen	08.03.21	e00	20-1927	S. Huber-Siegl	08.03.21

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