



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 P1

Material and plating

Connector parts

- Center contact
- Outer contact
- Body
- Dielectric
- Gasket
- Crimping ferrule

Material

- Brass
- Brass
- Brass
- PTFE
- NeopreneCR 50C6
- Copper

Plating

- AuroDur®, gold plated
- Flash white bronze over silver(e.g. Optargen®)
- Flash white bronze over silver(e.g. Optargen®)
- Flash white bronze over silver(e.g. Optargen®)

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RF_35/08.13/6.1

BNC 75 Ω

STRAIGHT PLUG

71S102-109N5

Electrical data

Impedance	75 Ω
Frequency	DC to 4 GHz
Return loss	≥ 35 dB @ DC to 2 GHz ≥ 30 dB @ 2 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	≥ 27 N

Environmental data

Temperature range	-65 °C to +165 °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, G 04233-2, URM 104, Video 0.6/3.7

Weight

Weight	10.4 g/pce
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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Inge Mühlauer	03.08.04	Sa. Krautenbacher	24.03.14	d00	14-0352	T. Krojer	24.03.14

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