



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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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
Inge Mühlauer	03.08.04	Sa. Krautenbacher	24.03.14	d00	14-0352	T. Krojer	24.03.14

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