



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

	Material	Plating
Center contact	Brass	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	
Gasket	NeopreneCR 50C6	
Crimping ferrule	Copper	Flash white bronze over silver(e.g. Optargen®)

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BNC 75 Ω

Straight plug

71S102-1V6N5

Electrical data

Impedance 75 Ω
 Frequency DC to 4 GHz
 Return loss ≥ 23 dB, DC to 1 GHz
 ≥ 20 dB, 1 to 2 GHz
 ≥ 15 dB, 2 to 4 GHz
 Insertion loss ≤ 0.1 x √ f [GHz] dB
 Insulation resistance ≥ 5 GΩ
 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 ≥ 500
 Center contact captivation: axial ≥ or 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 11W150-204

Suitable cables

TZC 75024, TZC 75025

Weight

Weight 9.7 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
Inge Mühlauer	03.08.04	A. Gasteiger	06.05.14	a00	14-0005	S. Krautenb.	05.05.14

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