



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**

	<b>Material</b>	<b>Plating</b>
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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RF\_35/08.13/6.1

BNC 75 Ω

Straight plug

**71S102-140N5**

**Electrical data**

Impedance	75 Ω
Frequency	DC to 4 GHz
Return loss	≥ 30 dB, DC to 1 GHz ≥ 25 dB, 1 to 3 GHz ≥ 23 dB, 3 to 4 GHz
Insertion loss	≤ 0.05 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	≥ 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**

Belden 8218, Siemens 2YCY 0.4/2.5

**Weight**

Weight	9.5 g/pce
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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Inge Mühlauer	03.08.04	Gasteiger A.	06.05.14	a00	14-0005	S. Krautenb.	05.05.14

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