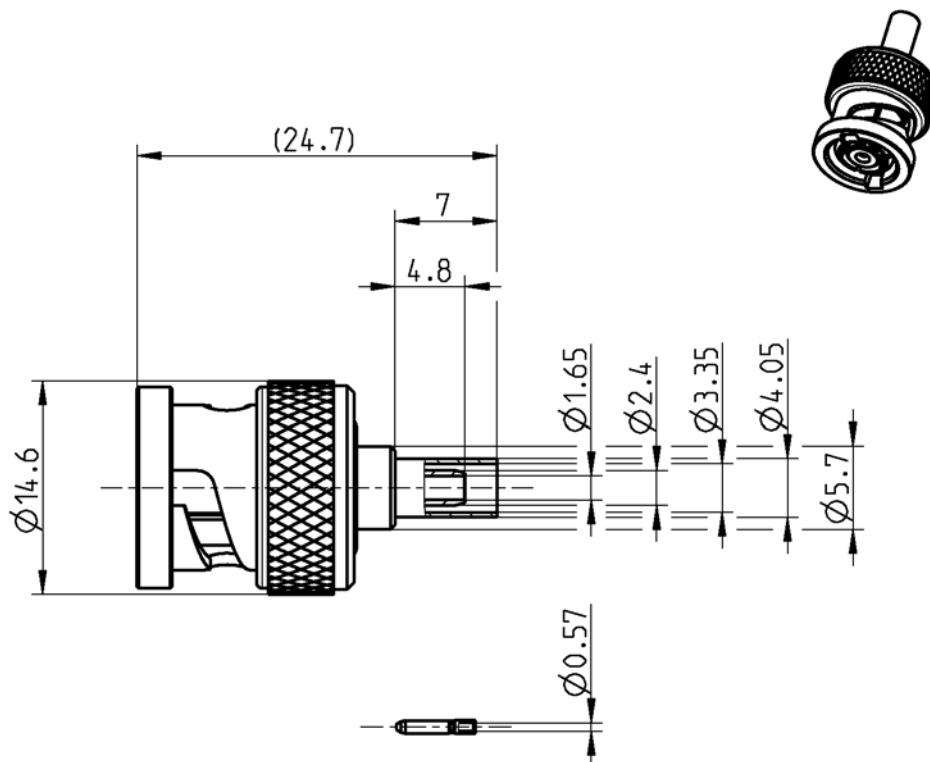


Reverse
BNC 50 Ω

STRAIGHT PLUG
REVERSE POLARITY

51RS107-803N4

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

Interface

Derived from
Compliant with

IEC 60169-8, MIL-PRF-39012, CECC 22120
FCC standard (part 15; section 15.203)

Documents

Assembly instruction

51 T

Material and plating**Connector parts**

Center contact
Outer contact
Body
Dielectric
Gasket
Crimping ferrule

Material

Beryllium copper
Brass
Brass
PTFE
NeopreneCR 50C6
Copper

Plating

Gold, min. 0.8 µm, over chemical nickel
Flash white bronze over silver(e.g. Optargen®)
Flash white bronze over silver(e.g. Optargen®)
Flash white bronze over silver(e.g. Optargen®)

TECHNICAL DATA SHEET

Rosenberger®

Reverse STRAIGHT PLUG
BNC 50 Ω REVERSE POLARITY

51RS107-803N4

Electrical data

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 28 dB, DC to 1 GHz ≥ 25 dB, 1 to 2 GHz ≥ 20 dB, 2 to 10 GHz
Insertion loss	≤ 0.05 x √ f [GHz] dB
Insulation resistance	≥ 5 x10 ³ MΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 1 mΩ
Test voltage	1500 V rms
Working voltage	500 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	min. 500
Center contact captivation: axial	≥ 15 N

Environmental data

Temperature range	-65°C to +165°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. G
Moisture resistance	MIL-STD-202, Meth. 106
2002/95/EC (RoHS)	compliant

Tooling

Crimping tool	11W150-000
Crimp insert	11W150-402

Suitable cables

RG 316 /U-d, K02252d

Packing

Standard	100 pcs in bag
Weight	10.4 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
Rong Fang	07/04/05	Krautenbacher J.	11/10/06	c00	06-0478	Wallner Markus	11/10/06

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