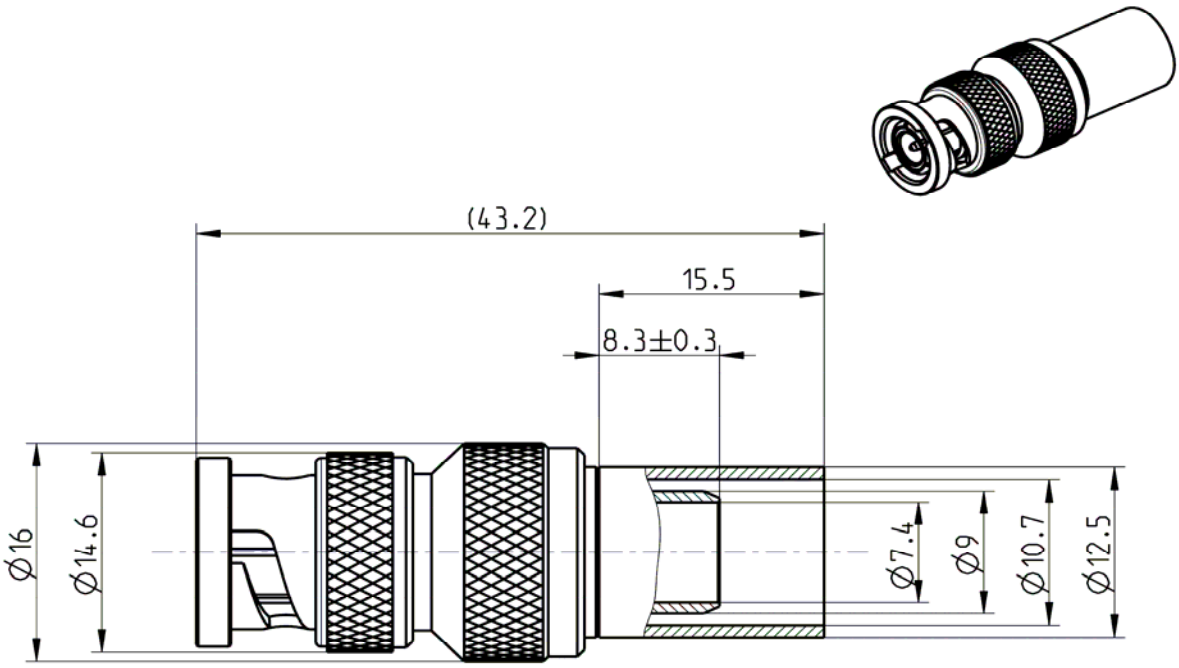
TECHNICAL DATA SHEET	Rosenberger
BNC 50 Ω STRAIGHT PLUG	**51S101-115N5**



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

Interface

According to	IEC 60169-8, MIL-PRF-39012, CECC 22120

Documents

Assembly instruction	51 O

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®)

Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel.: +49 8684 18-0
Fax: +49 8684 18-499
email: info@rosenberger.de

TECHNICAL DATA SHEET	Rosenberger
BNC 50 Ω STRAIGHT PLUG	**51S101-115N5**

Electrical data

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 30 dB, DC to 1 GHz ≥ 20 dB, 1 to 2 GHz ≥ 16 dB, 2 to 6 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f\ [GHz]}$ dB, DC to 6 GHz
Insulation resistance	≥ 5 x10^3 MΩ
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	min. 500

Ensure sufficient cable strain relief!

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	11W150-215

Suitable cables

RG 213 /U

Packing

Standard	1 pce in bag
Weight	28.0 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
Christian Janßen	27.04.10	T. Höher	18.05.10

Rev.	Engineering change number	Name	Date
f00	10-0337	B. Wollitzer	06.05.10

Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel.: +49 8684 18-0
Fax: +49 8684 18-499
email: info@rosenberger.de