Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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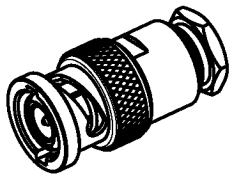
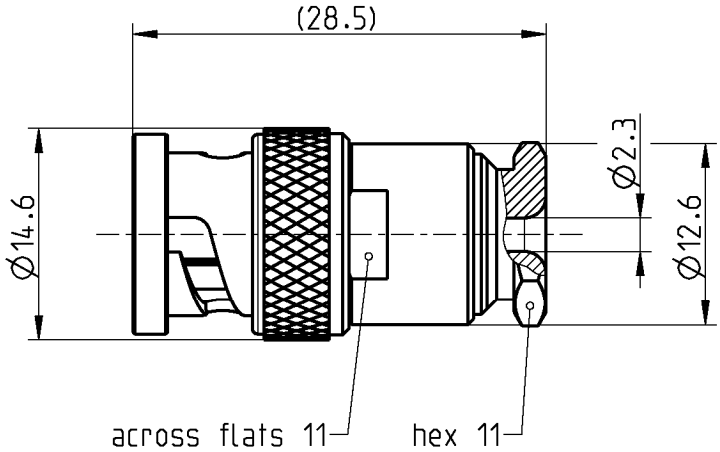
TECHNICAL DATA SHEET	Rosenberger
BNC 50 Ω STRAIGHT PLUG	**51S106-001N5**





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 E

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	
Gasket	Silicone	

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TECHNICAL DATA SHEET	Rosenberger
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Electrical data

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 20 dB, DC to 1 GHz ≥ 15 dB, 1 to 2 GHz ≥ 10 dB, 2 to 4 GHz
Insertion loss	$\leq 0.15 \times \sqrt{f\,[GHz]}$ dB, DC to 4 GHz
Insulation resistance	$\geq 5 \times 10^3$ 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
Center contact captivation: axial	≥ 15 N

Environmental data

Temperature range	-55°C to +155°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
RoHS	compliant

Tooling

N/A

Suitable cables

RG 196 A/U, RG 178 B/U

Weight

Weight	18.2 g/pce

Draft	Date	Approved	Date
Inge Mühlauer	20/07/04	Sa. Krautenbacher	17.03.14

Rev.	Engineering change number	Name	Date
e00	14-0352	T. Krojer	17.03.14

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