BNC Series

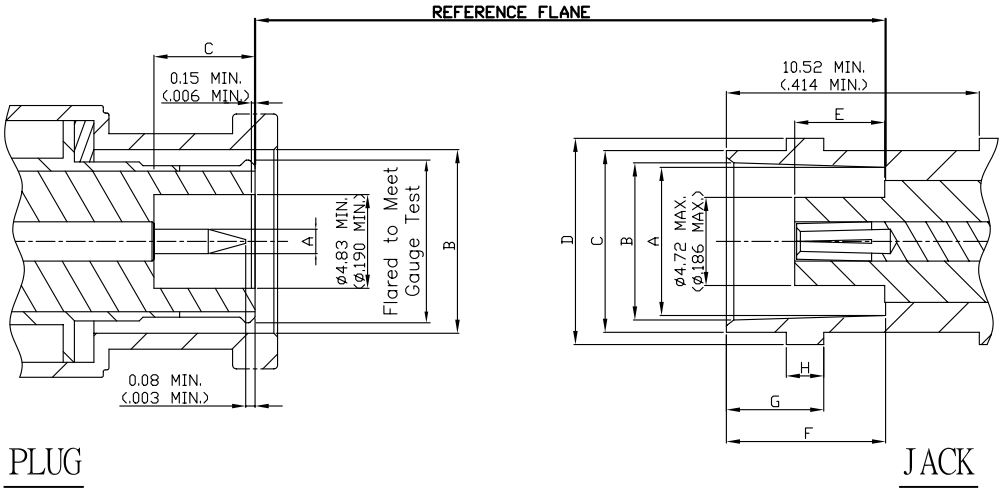
BNC

BNC (**B**ayonet **N**avy **C**onnector) series is one of the most popular coaxial connectors. The BNC incorporates a bayonet lock interface, which provides rapid and reliable intermateability. The impedance of the BNC connector is 50 or 75 ohms ?both versions will mate together without any restrictions. Respectively with impedance 50 or 75 ohms, BNC connectors can be operated up to 4GHz or 1GHz. This connector range is suitable for the standard types of flexible & semi-rigid cables, and it is also available as a flange or PCB mounted version.

Applications:
*telecommunication devices *medical equipment *monitor *LANs *test instrumentation

Interface dimensions conformable to the Standards:
International: IEC 169-8
USA: MIL-C-39012

BNC 50Ω Interface Dimensions:



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	PLUG			JACK		
	Minimum	Maximum		Minimum	Maximum	
A	1.32(..052)	1.37(.054)		8.10(.391)	8.15(.321)	A
B	9.78(.385)	9.91(.390)		8.31(.327)	8.46(.333)	B
C	5.28(.208)	5.79(.228)		9.60(.378)	9.70(.382)	C
				10.97(.432)	11.07(.436)	D
				4.72(.186)	5.23(.206)	E
				8.31(.327)	8.51(.335)	F
				5.18(.204)	5.28(.208)	G
				1.91(.075)	2.06(.081)	H

*Millimeters(Inches)

Materials：

Connector part	Material	Finish
Bodies	Brass	Nickel or Gold
Center Contact	Male: Brass Female: Brass, Phosphor Bronze, or Beryllium Copper	Gold
Insulator	Delrin or Teflon	N/A
Crimp ferrule	Annealed Copper	Nickel or Gold

Electrical：

Electrical Data	Detail	
Impedance	50 ohm	75 ohm
Frequency range	0-4 GHz	0-1 GHz
Working voltage	500 votls rms max.	
Insulation resistance	5,000 megohms min.	
Dielectric withstanding voltage	1,500 volts rms min.	
Contact resistance	Center contact: 1.5 Milliohms Outer contact: 1.0 Milliohms	
VSWR: f (GHz)	Straight: 1.3 max. Right angle: 1.5 max.	
Insertion loss	0.2 dB max. at 3GHz	

Mechanical：

Mechanical Data	Detail
Engagement force	2.5 inch-pound max.
Disengagement force	3 lbs max. Axial force
Connector durability	500 cycles min.
Cable retention force	RG58, 141, 142, 223/U → 40 lbs min. RG174, 188, 316/U → 20 lbs min.

Environmental：

Environmental Data	Detail
Corrosion (Salt spray)	MIL-STD-202 METHOD 101 TEST CONDITION B
Thermal shock	MIL-STD-202 METHOD 107 TEST CONDITION B
Vibration	MIL-STD-202 METHOD 204 TEST CONDITION B
Mechanical shock	MIL-STD-202 METHOD 213 TEST CONDITION I
Temperature range	-65℃ to 165℃ (Teflon)