

BNC SERIES

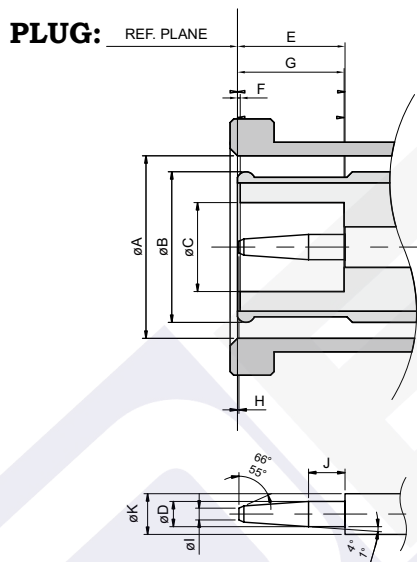
Miniature Coaxial Connectors

FEATURES

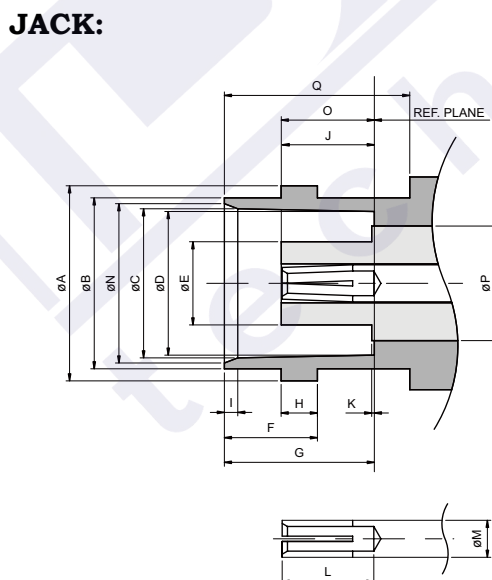
The BNC series coaxial connector, a medium sized coaxial connector with bayonet lock, has found its way into the lower microwave frequency applications.

50 Ω impedance for applications up to 4GHz and 75 Ω impedance for up to 1GHz. All 75 Ω BNC and 50 Ω BNC connectors are intermatable without restrictions possessing good performance, strength and reliability.

50 Ω INTERFACE MATING DIMENSIONS



Letter	Millimeters (inch)	
	Minimum	Maximum
A	9.78 (.385)	9.91 (.390)
B	----	8.18 (.322)
C	4.83 (.190)	----
D	1.32 (.052)	1.37 (.054)
E	5.33 (.210)	5.84 (.230)
F	0.15 (.006)	----
G	5.28 (.208)	5.79 (.228)
H	0.08 (.003)	----
I	----	0.64 (.025)
J	1.98 (.078)	----
K	2.06 (.081)	2.21 (.087)



Letter	Millimeters (inch)	
	Minimum	Maximum
A	10.97 (.432)	11.07 (.436)
B	9.60 (.378)	9.70 (.382)
C	8.31 (.327)	8.46 (.333)
D	8.10 (.319)	8.15 (.321)
E	----	4.72 (.186)
F	5.18 (.204)	5.28 (.208)
G	8.31 (.327)	8.51 (.335)
H	1.91 (.075)	2.06 (.081)
I	0.38 (.015)	0.76 (.030)
J	4.72 (.186)	5.23 (.206)
K	----	0.15 (.006)
L	4.95 (.195)	----
M	2.06 (.081)	2.21 (.087)
N	8.79 (.346)	9.04 (.356)
O	4.78 (.188)	5.28 (.208)
P	----	6.50 (.256)
Q	10.52 (.414)	----

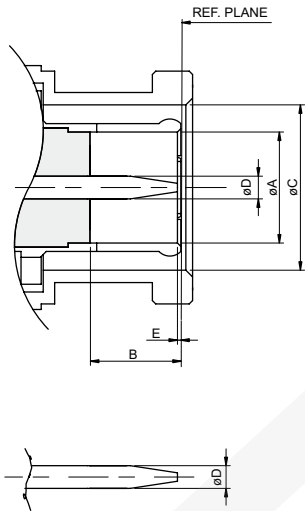
NOTES

1. ID TO MEET VSWR AND CONTACT RESISTANCE WHEN MATED WITH 1.34 $\pm$.02mm DIA PIN.

Ideal Technology has a policy of continuous improvement. Specifications are subject to change without notice.

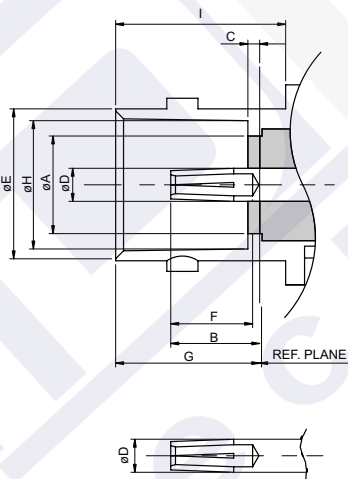
75Ω INTERFACE MATING DIMENSIONS

PLUG:



Letter	Millimeters (inch)	
	Minimum	Maximum
A	4.83 (.190)	4.97 (.196)
B	5.28 (.208)	5.79 (.228)
C	9.78 (.385)	9.91 (.390)
D	1.32 (.052)	1.37 (.054)
E	0.08 (.003)	1.02 (.040)

JACK:



Letter	Millimeters (inch)	
	Minimum	Maximum
A	---	4.72 (.186)
B	4.72 (.186)	5.23 (.206)
C	1.50 (.059)	---
D	2.10 (.827)	---
E	9.60 (.378)	9.70 (.382)
F	4.95 (.195)	---
G	8.35 (.328)	8.48 (.334)
H	8.10 (.319)	8.15 (.321)
I	10.60 (.417)	---

TECHNICAL DATA

Electrical Data	50Ω	75Ω
Dielectric Withstanding Voltage (at sea level, in V rms, 50Hz)	1500	
Working Voltage (at sea level, in V rms, 50Hz)	≤500	
Impedance	50 Ω	75Ω
Frequency Range	DC up to 4 GHz	DC up to 1 GHz
Insulation Resistance	≥5000MΩ	
Contact Resistance Inner Conductor	≤1.5mΩ	
Contact Resistance Outer Conductor	≤1mΩ	

Mechanical Data (50Ω & 75Ω)	
Coupling Nut Torque	0.6 to 2.5 in.-lbs
Coupling Nut Retention Force	≥101.2 lbs
Contact Captivation	≥6.1 lbs
Durability (matings)	≥500

Environmental Data (50Ω & 75Ω)	
Temperature Range	-65°C...+165°C
Thermal Shock	MIL-STD-202, Method 107, Condition B
Moisture Resistance	MIL-STD-202, Method 106
Corrosion	MIL-STD-202, Method 101, Condition B

BNC