



BNC



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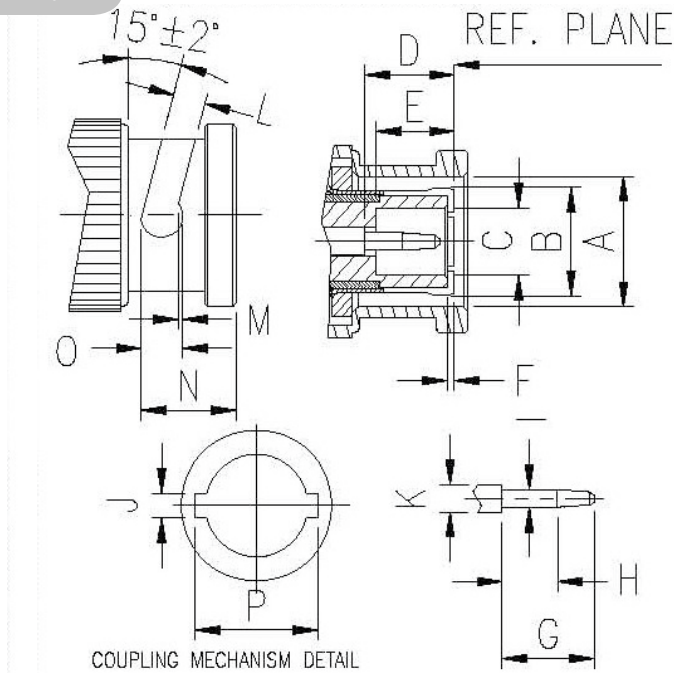
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BNC - Description

Aliner BNC connectors are the RF connectors most frequently used in electronics and network worldwide. BNC connectors are applicable from DC up to 4 GHz with 50Ω and from DC up to 1 GHz with 75Ω characteristic impedance.

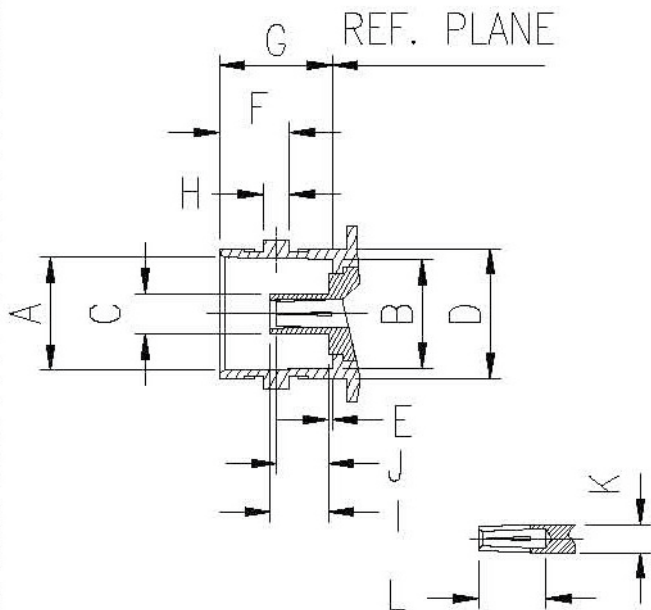
Interface Mating Dimensions

MALE :



LTR.	Millimeters / Inches			
	MINIMUM		MAXIMUM	
A -	Ø 9.78	Ø .385	Ø 9.91	Ø .390
B -	Ø 7.92	Ø .312	Ø 8.10	Ø .319
C -	Ø 4.83	Ø .192		
D -	5.33	.209	5.84	.230
E -	5.28	.208	5.79	.228
F -	0.15	.006		
G -	4.32	.170	5.80	.228
H -	1.98	.077		
I -	Ø 1.32	Ø .052	Ø 1.37	Ø .054
J -	2.31	.091	2.46	.097
K -	Ø 2.06	Ø .081	Ø 2.21	Ø .087
L -	2.31	.091	2.46	.097
M -	0.46	.018	0.56	.022
N -	4.57	.180	4.67	.184
O -	3.15	.124		
P -	11.76	.463	12.01	.473

FEMALE :



LTR.	Millimeters / Inches			
	MINIMUM		MAXIMUM	
A -	Ø 8.31	Ø .327	Ø 8.51	Ø .335
B -	Ø 8.10	Ø .319	Ø 8.15	Ø .321
C -			Ø 4.72	Ø .186
D -	Ø 9.60	Ø .378	Ø 9.68	Ø .381
E -			0.15	.006
F -	5.18	.204	5.28	.208
G -	8.31	.327	8.51	.335
H -	1.91	.075	2.00	.081
I -	4.78	.188	5.28	.208
J -	4.72	.186	5.23	.206
K -	2.06	.081	2.21	.087
L -	4.95	.194		



Technical Data

Material / Finish :

	Material	Finish
Connector body	Brass per (QQ-B-626 or JIS-C3604B)	Nickel or gold plating
Center contact male	Brass per (QQ-B-626 or JIS-C3604B)	Gold plating
Center contact female	Beryllium copper per (QQ-C-530 or JIS-C1730) or Phosphor bronze per (QQ-B-750 or JIS-C5441B)	Gold plating
Insulator	PTFE or P.P.	None
Crimp ferrule	Annealed copper	Same as body
Gasket	Silicone rubber	None

Electrical :

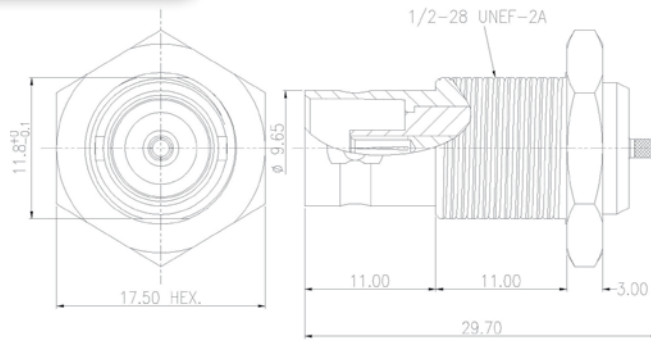
Nominal impedance	50 Ω
Frequency up to	4 GHz
VSWR	1.3 max. @ 1GHz
Working voltage	500 Volts rms.
Dielectric withstanding voltage	1500 Volts rms.
Insulation resistance	5000 M Ω min.
Contact resistance	center conductor 4.0 m Ω outer conductor 1.5 m Ω

Mechanical & Environmental :

Mating	Bayonet Lock Coupling
Cable retention	6 kgf typical
Durability	\geq 500 cycles
Coupling nut retention	15 kgf min.
Temperature range	P.P. -45 $^{\circ}$ C to +85 $^{\circ}$ C , PTFE -55 $^{\circ}$ C to +155 $^{\circ}$ C
Vibration	Per MIL-STD-202 Method 204 Test Condition D
Corrosion	Per MIL-STD-202 Method 101 Test Condition B

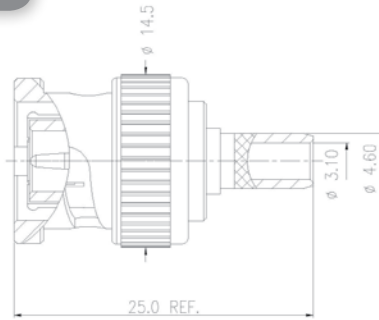


Straight Bulkhead Jack(female)



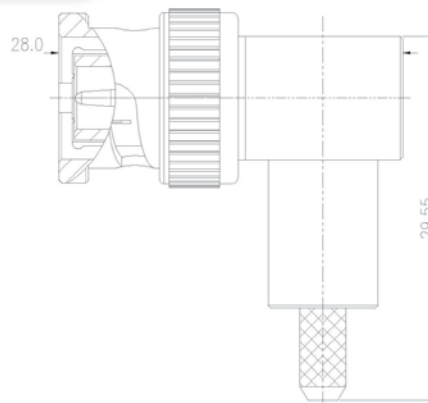
Aliner P/N	Impedance	Plating	Packaging	Cable Type	Note
17-220AA-B	50	Nickel	Bulk	1.13 mini coaxial	Standard
17-201AA-B	50	Nickel	Bulk	RG-174/U;RG-188 A/U;RG-316/U	Standard

Straight Plug(male)



Aliner P/N	Impedance	Plating	Packaging	Cable Type	Note
17-131A0-B	50	Nickel	Bulk	RG-58 C/U;RG-303/U	Standard
17-132A0-B	75	Nickel	Bulk	RG-59	Standard

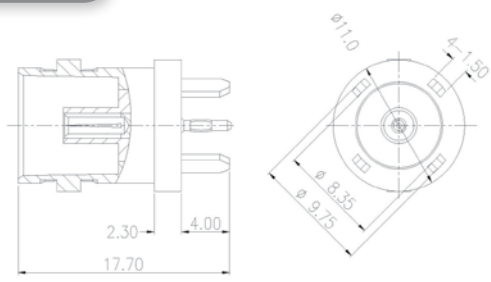
Right Angle Plug(male)



Aliner P/N	Impedance	Plating	Packaging	Cable Type	Note
17-109A0-B	50	Nickel	Bulk	RG-174/U;RG-188 A/U;RG-316/U	Standard

Straight Jack(female)

PCB MOUNT



A liner P/N	Impedance	Plating	Packaging	Mounting Pattern	Note
17-112C0-T	75	Nickel	Tray	B03	Standard

