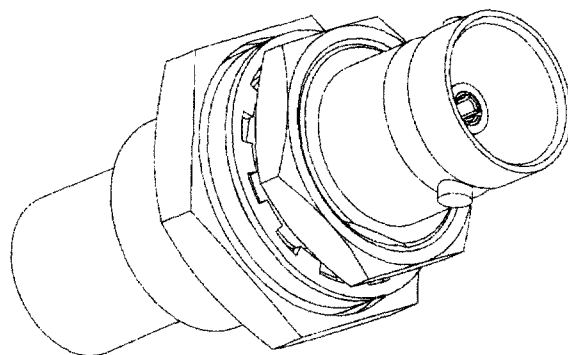


BNC Series

75 Ohms

Bayonet Locking



Features

- Miniature
- Weatherproof
- For applications below 2 GHz

Options

- Small and Medium Sized Cables
- Straight, Right-Angle, Long Crimp, Short Crimp, Flange Mount, Single Hole Mount, Printed Circuit Board, Cap and Chain, Termination and Tee types available
- Adapters available

Specifications

- QQ-B-626
- MIL-STD-348
- MIL-STD-202
- MIL-G-45204
- QQ-S-365
- ZZ-R-765

Mating Data

- RG-/U Cables (See page 30-9)

Technical Data

Materials

- Body Parts Brass, QQ-B-626, 1/2 HD.
- Contacts
 - ▶ Male Brass, QQ-B-626, 1/2 HD.
 - ▶ Female Beryllium copper, QQ-C-530, Heat treated to condition HT
- Insulators PTFE Fluorocarbon
- Gaskets Rubber, ZZ-R-765

Plating

All parts plated to meet finish and corrosion requirements of MIL-C-39012

- Finish
 - ▶ Gold MIL-G-45204
 - ▶ Nickel IP23
 - ▶ Silver QQ-S-365
 - ▶ Tri-Alloy P20

Electrical Performance

- Impedance 75Ω nominal
- Frequency Range 0 to 2 GHz

- Insulation Resistance 5,000 MΩ Minimum
- Voltage Rating 500 VRMS working Voltage
- Dielectric Withstanding 1,500 VRMS at sea level
- Voltage Standing Wave ratio (VSWR) . . . 1.17 Max to 2 GHz
- Contact Resistance
 - ▶ Outer contact 0.2 mΩ maximum
 - ▶ Center contact 1.5 mΩ maximum

Mechanical Performance

- Force to Engage and Disengage
 - ▶ Longitudinal force 3 lbs Maximum
 - ▶ Torque 2 1/2 inch-lbs Maximum
- Coupling Nut Retention Force 100 lbs minimum
- Connector Durability 500 cycles minimum

Operating Environment

- Temperature range -65°C to +165°C
- Corrosion (salt spray) . . . MIL-STD-202, method 101, cond. B
- Moisture Resistance MIL-STD-202, method 106

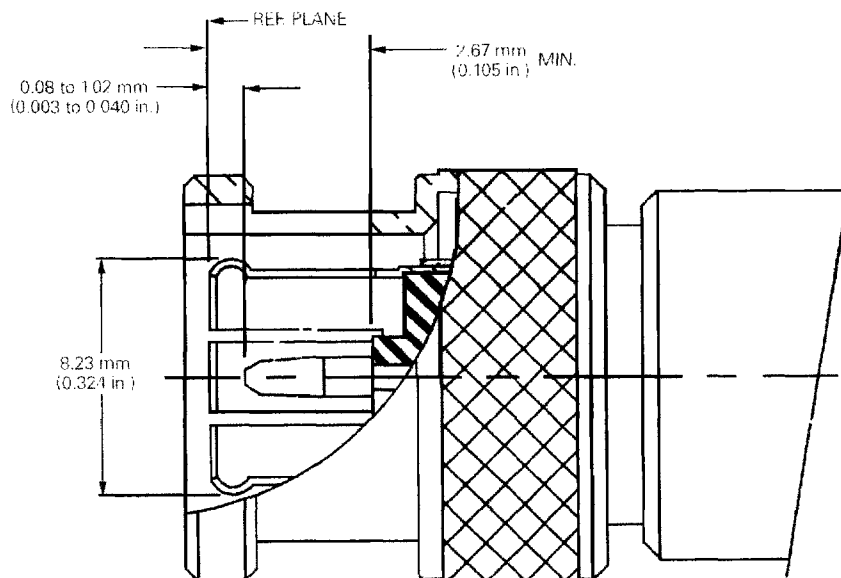
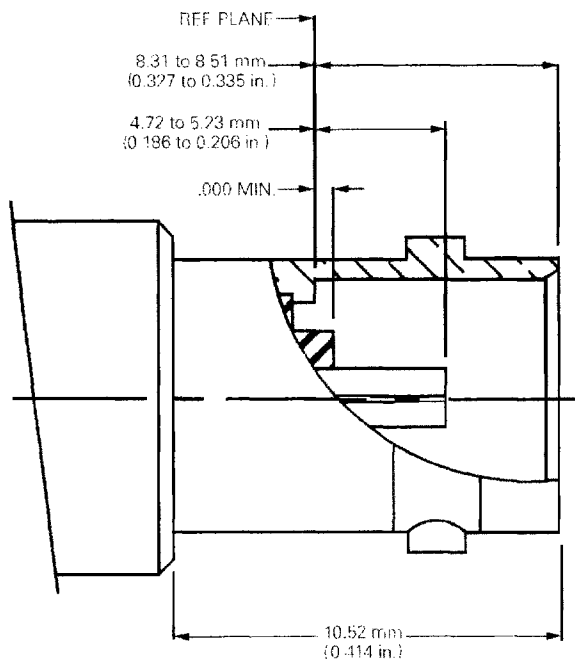
Packaging

- Single Bag
- Custom packaging available upon request

Customer Support Materials

Description	Order No.	Description	Order No.
Customer Product Drawings	By Part Number	Product Samples	Upon Request
Product Substitutions	Contact Technical Support	Test Data	Upon Request

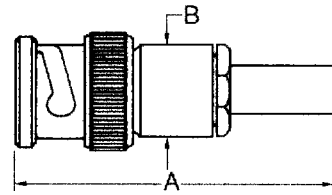
Interface Dimensions per MIL-STD-348



BNC 75 Ohm Cable Plugs

Description

BNC 75 Ohm Cable Plug - Long Crimp Straight



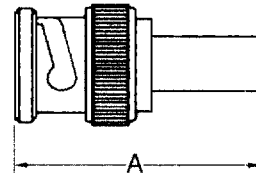
Ordering Data

BNC 75 Ohm Cable Plug Long Crimp Straight

Part Number	Cable RG-/U	Crimp Tool Hex		Dimension				Finish	Assembly Instructions
		mm	in.	A		B			
28P290-1	174, 179, 316	3.25	0.128	mm	in.	mm	in.	Nickel	AI-289
28P294-1	Belden 8281	8.23	0.324	39.29	1.547	12.70	0.500	Nickel	AI-335

Description

BNC 75 Ohm Cable Plug Short Crimp Straight



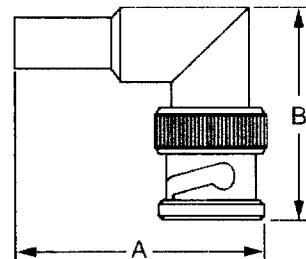
Ordering Data

BNC 75 Ohm Cable Plug Short Crimp Straight

Part Numbers	Cable RG-/U	Crimp Tool Hex		Dimension A		Finish	Assembly Instructions
		mm	in.	mm	in.		
28P293-1	59	6.48	0.255	29.37	1.156	Nickel	AI-26
28P293-2	179, 187	3.25	0.128	29.37	1.156	Nickel	AI-26

Description

BNC 75 Ohm Cable Plug Short Crimp Right-Angle

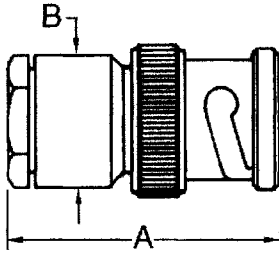


Ordering Data

BNC 75 Ohm Cable Plug Short Crimp Right-Angle

Part Number	Cable RG-/U	Crimp Tool Hex		Dimension				Finish	Assembly Instructions
		mm	in.	A		B			
28P268-1	59	6.48	0.255	mm	in.	mm	in.	Nickel	AI-101
28P268-3	174, 179, 316	3.25	0.128	25.80	1.016	22.62	0.891	Nickel	AI-101

To obtain Assembly Instructions contact Berg Electronics at 1-800-237-2374 Ext.-2800

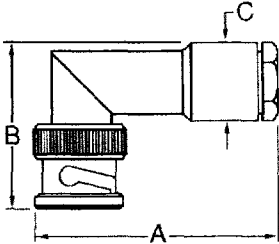


Description
BNC 75 Ohm Cable Plug - Straight Cut Straight

Ordering Data
BNC 75 Ohm Cable Plug - Straight Cut Straight

Part Number	Cable RG-/U	Dimension				Finish	Assembly Instructions	Note
		A		B				
		mm	in.	mm	in.			
28P284-1	59	26.99	1.063	12.70	0.500	Nickel	AI-12	1
28P284-3	302	26.99	1.063	12.70	0.500	Nickel	AI-12	
28P284-4	179, 187	26.99	1.063	12.70	0.500	Nickel	AI-12	

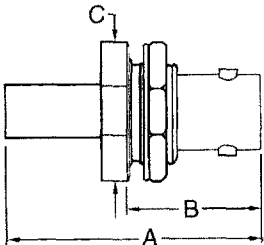
Note 1 - Also available in clamp cable termination as 28P189-2.



Description
BNC 75 Ohm Cable Plug - Straight Cut Right-Angle

Ordering Data
BNC 75 Ohm Cable Plug - Straight Cut Right-Angle

Part Number	Cable RG-/U	Dimension						Finish	Assembly Instructions
		A		B		C			
		mm	in.	mm	in.	mm	in.		
28P243-1	59	39.69	1.563	27.78	1.094	12.70	0.500	Nickel	AI-20



Description
BNC 75 Ohm Cable Jack - Single Hole Mount Short Crimp Straight

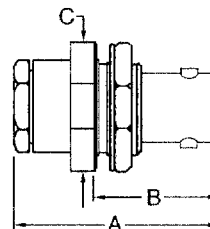
Ordering Data
BNC 75 Ohm Cable Jack - Single Hole Mount Short Crimp Straight

Part Number	Cable RG-/U	Crimp Tool Hex	Dimension						Finish	Mtg. Hole	Assembly Instructions	Note	
			A		B		C						
			mm	in.	mm	in.	mm	in.					
28JS171-1	174, 187, 188	4.52	0.178	33.34	1.313	17.07	0.672	17.46	0.688	Nickel	D4	AI-26	
28JS171-2	59, 62, 210	6.48	0.255	33.34	1.313	17.07	0.672	17.46	0.688	Nickel	D4	AI-26	
28JS209-1	59	6.48	0.255	32.54	1.281	20.64	0.813	17.46	0.688	Nickel	D4	AI-26	1
28JS209-2	174, 316	3.25	0.128	32.54	1.281	20.64	0.813	17.46	0.688	Nickel	D4	AI-26	1

Note 1 - Captive Contact

To obtain Assembly Instructions contact Berg Electronics at 1-800-237-2374 Ext.-2800

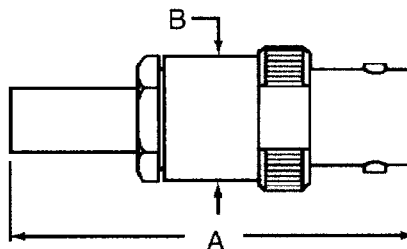
Description
BNC 75 Ohm Cable Jack - Single Hole Mount Clamp
Straight



Ordering Data
BNC 75 Ohm Cable Jack - Single Hole Mount Captive Contact Straight

Part Number	Cable RG-/U	Dimension						Finish	Mtg. Hole	Assembly Instructions
		A		B		C				
		mm	in.	mm	in.	mm	in.			
28JS161-2	59	28.58	1.125	20.64	0.813	17.46	0.688	Nickel	D4	AI-20
28JS161-3	174, 179A, 187, 188	28.58	1.125	20.64	0.813	17.46	0.688	Nickel	D4	AI-20

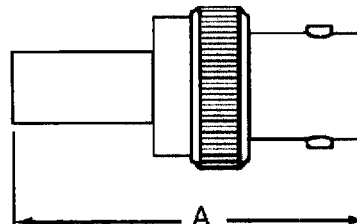
Description
BNC 75 Ohm Cable Jack - Long Crimp Straight



Ordering Data
BNC 75 Ohm Cable Jack - Long Crimp Straight

Part Number	Cable RG-/U	Crimp Tool Hex	Dimension						Finish	Assembly Instructions
			A		B					
			mm	in.	mm	in.	mm	in.		
28J168-1	Belden 8281		8.23	0.324	38.10	1.500	12.70	0.500	Nickel	AI-328

Description
BNC 75 Ohm Cable Jack - Short Crimp Straight



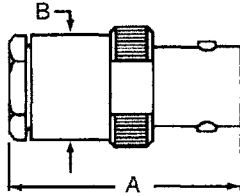
Ordering Data
BNC 75 Ohm Cable Jack - Short Crimp Straight

Part Number	Cable RG-/U	Crimp Tool Hex		Dimension A		Finish	Assembly Instructions
		mm	in.	mm	in.		
28J169-1	59	6.48	0.255	32.54	1.281	Nickel	AI-26

To obtain Assembly Instructions contact Berg Electronics at 1-800-237-2374 Ext.-2800

Description

BNC 75 Ohm Cable Jack - Clamp Straight



Ordering Data

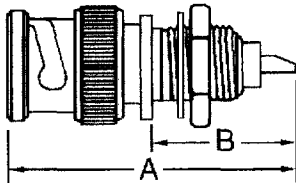
BNC 75 Ohm Cable Jack - Clamp Straight

Part Number	Cable RG-/U	Dimension				Finish	Assembly Instructions
		A		B			
		mm	in.	mm	in.		
28J138-1	59	28.58	1.125	12.70	0.500	Nickel	AI-20

BNC 75 Ohm Receptacles

Description

BNC 75 Ohm Receptacle Plug - Single Hole Mount Solder Straight



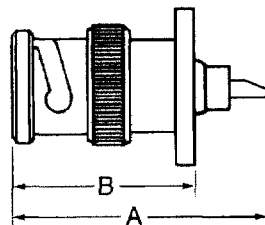
Ordering Data

BNC 75 Ohm Receptacle Plug - Single Hole Mount Solder Straight

Part Number	Dimension				Finish	Mtg. Hole
	A		B			
	mm	in.	mm	in.		
28PR124-1	31.75	1.250	14.68	0.578	Nickel	D8

Description

BNC 75 Ohm Receptacle Plug - Flange Mount Solder Straight



Ordering Data

BNC 75 Ohm Receptacle Plug - Flange Mount Solder Straight

Part Number	Dimension				Mtg. Plate	Finish
	A		B			
	mm	in.	mm	in.		
28PR136-1	31.75	1.250	21.43	0.844	2B	Nickel

To obtain Assembly Instructions contact Berg Electronics at 1-800-237-2374 Ext.-2800

Description
BNC 75 Ohm Receptacle Jack - Printed Circuit Board Straight

Ordering Data
BNC 75 Ohm Receptacle Jack - Printed Circuit Board Straight

Part Number	Dimension						Finish	Mtg. PCB	Note
	A		B		C				
	mm	in.	mm	in.	mm	in.			
28JR272-1	17.86	0.703	4.80	0.189	12.70	0.500	Nickel	B1	1

Note 1 - 5 legs 0.97 mm (0.038 in.) diameter

Description
BNC 75 Ohm Receptacle Jack - Printed Circuit Board Right-Angle

Ordering Data
BNC 75 Ohm Receptacle Jack - Printed Circuit Board Right-Angle

Part Number	Dimension						Finish	Mtg. PCB	Note
	A		B		C				
	mm	in.	mm	in.	mm	in.			
28JR327-1	15.48	0.609	4.80	0.189	20.24	0.797	Nickel	B1	1

Note 1 - 5 legs 0.97 mm (0.038 in.) diameter

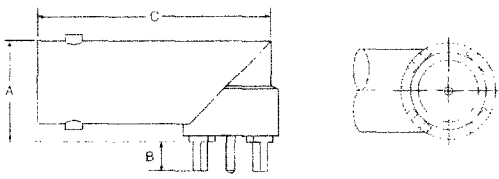
Description
BNC 75 Ohm Receptacle Jack - Compliant Pin Straight

Ordering Data
BNC 75 Ohm Receptacle Jack - Compliant Pin Straight

Part Number	Dimension								Finish	Mtg. PCB
	A		B		C		D			
	mm	in.	mm	in.	mm	in.	mm	in.		
28JR525-1	16.00	0.630	4.29	0.169	6.88	0.271	N/A		Nickel	B8
28JR529-1	16.00	0.630	4.57	0.180	6.88	0.271	5.59	0.220	Nickel	B6

To obtain Assembly Instructions contact Berg Electronics at 1-800-237-2374 Ext.-2800

Description
BNC 75 Ohm Receptacle Jack -
Printed Circuit Board Right-Angle



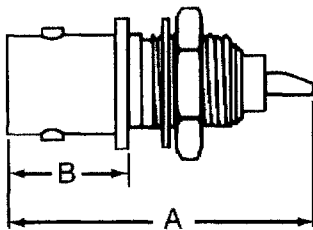
Ordering Data

BNC 75 Ohm Receptacle Jack - Printed Circuit Board Right-Angle

Part Number	Dimension						Finish	Mtg. PCB	Note
	A		B		C				
	mm	in.	mm	in.	mm	in.			
28JR401-1	10.97	0.432	3.33	0.131	28.02	1.103	Nickel	B7	
28JR401-2	10.97	0.432	3.33	0.131	28.02	1.103	Tri-Alloy	B7	
28JR404-1	10.97	0.432	3.33	0.131	28.02	1.103	Nickel	B7	1
28JR521-1	10.97	0.432	3.33	0.131	28.02	1.103	Nickel	B5	

Note 1 - Short Insulator

Description
BNC 75 Ohm Receptacle Jack -
Single Hole Mount Straight

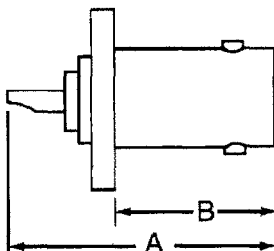


Ordering Data

BNC 75 Ohm Receptacle Jack - Single Hole Mount Straight

Part Number	Dimension				Finish	Mtg. Hole	Note
	A		B				
	mm	in.	mm	in.			
28JR217-2	24.21	0.953	13.10	0.516	Nickel	Threaded 3/8-32	
28JR261-1	32.94	1.297	15.08	0.594	Silver	DD2	
28JR268-1	26.99	1.063	13.89	0.547	Nickel	D8	
28JR343-1	20.24	0.797	11.91	0.469	Nickel	D8	
28JR345-1	20.24	0.797	15.88	0.625	Nickel	D5	Reverse Mount

Description
BNC 75 Ohm Receptacle Jack -
Flange Mount Solder Straight



Ordering Data

BNC 75 Ohm Receptacle Jack - Flange Mount Solder Straight

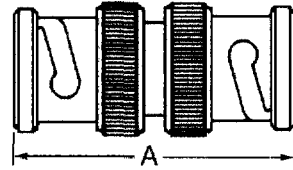
Part Number	Dimension				Finish	Mtg. Plate
	A		B			
	mm	in.	mm	in.		
28JR258-1	24.21	0.953	15.88	0.625	Nickel	3B

To obtain Assembly Instructions contact Berg Electronics at 1-800-237-2374 Ext.-2800

BNC 75 Ohm Adapters

Description

BNC 75 Ohm Adapter - Straight



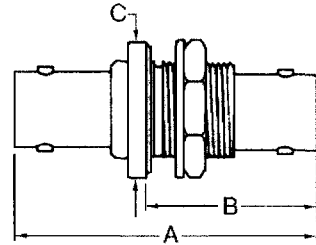
Ordering Data

BNC 75 Ohm Adapter - Straight

Part Number	Adapter Ends	Dimension A		Finish
		mm	in.	
28A111-2	Plug-Plug	31.35	1.234	Nickel

Description

BNC 75 Ohm Adapter - Single Hole Mount Straight



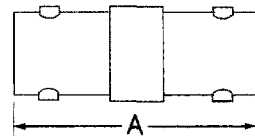
Ordering Data

BNC 75 Ohm Adapter - Single Hole Mount Straight

Part Number	Adapter Ends	Dimension						Finish	Mtg. Hole
		A		B		C			
		mm	in.	mm	in.	mm	in.		
28AS112-1	Jack-Jack	32.54	1.281	19.45	0.766	17.46	0.688	Nickel	D4

Description

BNC 75 Ohm Adapter - Straight

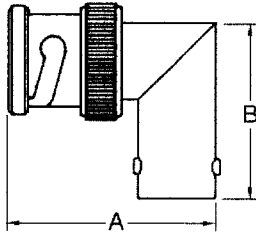


Ordering Data

BNC 75 Ohm Adapter - Straight

Part Number	Adapter Ends	Dimension A		Finish
		mm	in.	
28A110-2	Jack-Jack	32.54	1.281	Nickel

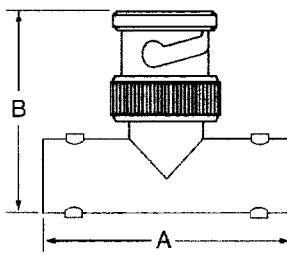
To obtain Assembly Instructions contact Berg Electronics at 1-800-237-2374 Ext.-2800



Description
BNC 75 Ohm Adapter - Right-Angle

Ordering Data
BNC 75 Ohm Adapter - Right-Angle

Part Number	Adapter Ends	Dimension				Finish
		A		B		
		mm	in.	mm	in.	
28AR102-2	Plug-Jack	26.19	1.031	20.24	0.797	Nickel

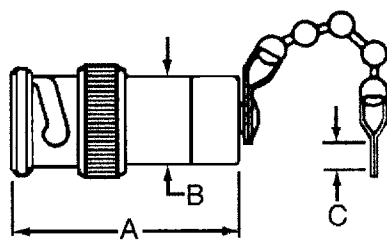


Description
BNC 75 Ohm Adapter - Tee

Ordering Data
BNC 75 Ohm Adapter - Tee

Part Number	Adapter Ends	Dimension				Finish
		A		B		
		mm	in.	mm	in.	
28AT109-1	Jack-Plug-Jack	32.54	1.281	26.19	1.031	Nickel
28AT112-1	Plug-Plug-Plug	46.04	1.813	30.96	1.219	Nickel
28AT113-1	Jack-Jack-Jack	32.54	1.281	22.62	0.891	Nickel

BNC 75 Ohm Termination



Description
BNC 75 Ohm Termination Plug - Straight

Ordering Data
BNC 75 Ohm Termination Plug - Straight

Part Number	Resistor		Dimension						Finish	Chain Length	
			A		B		C			mm	in.
	Ohm	Watt	mm	in.	mm	in.	mm	in.			
28PO104-2	75	0.5	31.75	1.250	12.70	0.500	No Chain		Nickel	N/A	
28PO108-1	75	0.5	30.16	1.188	12.70	0.500	3.66	0.144	Nickel	88.90 3.500	

To obtain Assembly Instructions contact Berg Electronics at 1-800-237-2374 Ext.-2800