

BNC 50 Ohm 0 - 4 GHz: Specifications and Interface Dimensions

MECHANICAL

Materials:

Connector Body: Brass per ASTM B16 1/2 HD
 Center Contact Male: Brass per ASTM B16 1/2 HD
 Center Contact Female: Brass, Phosphor Bronze or Beryllium Copper
 Insulation: Teflon or Delrin
 Gasket: Silicone Rubber, Rubber
 Crimp Ferrule: Annealed Copper Alloy

Finish:

Connector Body: Nickel per QQ-N-290
 Center Contact Male: Gold per MIL-G-45204
 Center Contact Female: Gold per MIL-G-45204

MATING CHARACTERISTICS

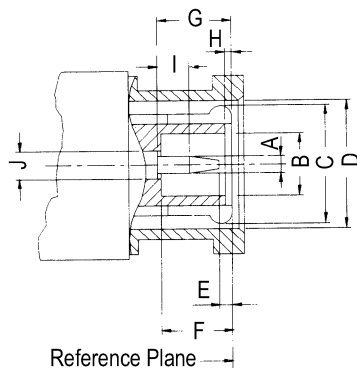
Mating: Two Stud Bayonet Coupling
 Durability: 500 Matings
 Coupling Nut Retention: 100 lbs. Minimum

ELECTRICAL

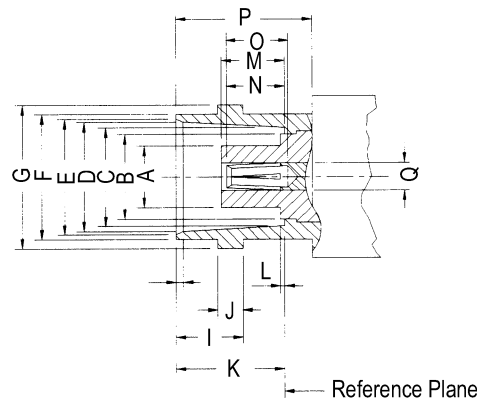
Impedance: 50 Ohm
 Frequency Range: 0 to 4.0 GHz
 Voltage Standing Wave Ratio: 1.3 Maximum
 Voltage Rating: 500 Volts RMS Maximum
 Connectors For RG-58,141,142,223 500 Volts RMS Maximum
 Connectors For RG-174,188,316 750 Volts RMS Maximum
 Contact Resistance:
 Center Contact 1.5 Milliohms Maximum
 Outer Contact 0.5 Milliohms Maximum
 RF Leakage: -55 dB Minimum @ 3 GHz
 Insertion Loss: .2 dB Maximum @ 3 GHz
 Insertion Resistance: 5,000 Megohms Minimum

ENVIRONMENTAL

Temperature Range: -65°C to 85°C
 Vibration: MIL-STD-202, Method 204, Test Condition B
 Salt Spray: MIL-STD-202, Method 101, Test Condition B.



PLUG		
Letter	Minimum	Maximum
A	.052	.054
B	.190	-
C	Slotted and flared to meet electrical and mechanical requirements	
D	.385	.390
E	.003	-
F	.208	.228
G	.210	.230
H	.006	.018
I	.078	-
J	.081	.087



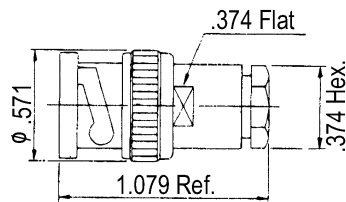
Jack		
Letter	Minimum	Maximum
A	-	.186
B	-	.256
C	.319	.321
D	.327	.333
E	.346	.356
F	.378	.382
G	.432	.436
H	.015	.030
I	.204	.208
J	.075	.081
K	.327	.335
L	-	.006
M	.189	.208
N	.186	.206
O	.195	-
P	.414	-
Q	.081	.087

Note: Dimensions shown in inches.

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BNC: Flexible Cable - Clamp Attachment

Straight Plug Clamp

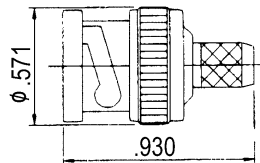


Part Number	Cable
580-700-1160Y	RG-303,141
580-700-1165Y	RG-59,210

- See page 120 for cable assembly procedures: CM-07

BNC: Flexible Cable - Crimp Attachment

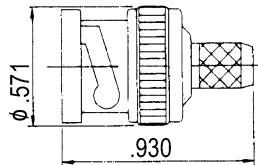
Straight Plug Crimp



Part Number	Cable
580-900-1160Y	RG-303,141
580-900-1165Y	RG-59,210

- See page 117 for cable assembly procedures: CM-04

Straight Plug Crimp

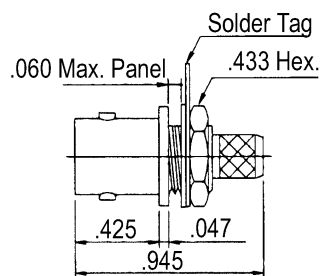


Part Number	Cable
580-900-0630Y	RG-316,188
580-900-0635Y	RG-179

- See page 116 for cable assembly procedures: CM-03

BNC: Flexible Cable - Crimp Attachment

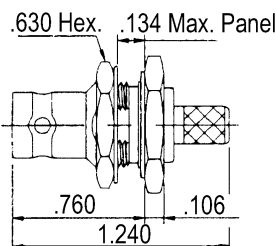
Straight Bulkhead Jack Crimp



Part Number	Cable	Mounting Hole
581-929-0630Y	RG-316	No. 029

- See page 116 for cable assembly procedures: CM-03
- See page 83 for mounting hole layout.

Straight Bulkhead Jack Crimp



Part Number	Cable	Mounting Hole
581-924-1160Y	RG-303,141	No. 024
581-924-1165Y	RG-59,210	No. 024

- See page 116 for cable assembly procedures: CM-03
- See page 83 for mounting hole layout.

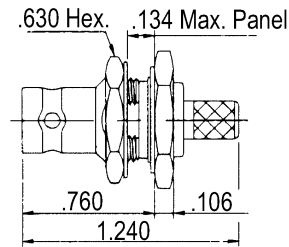
Note: Dimensions shown in inches.

Winchester/Retconn

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BNC: Flexible Cable - Crimp Attachment

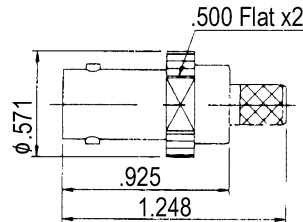
Straight Bulkhead Jack Crimp



Part Number	Cable	Mounting Hole
581-924-0630Y	RG-316	No. 024
581-924-0635Y	RG-179	No. 024

- See page 116 for cable assembly procedures: CM-03
- See page 83 for mounting hole layout.

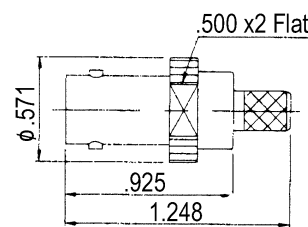
Straight Jack Crimp



Part Number	Cable
581-900-1160Y	RG-303,141
581-900-1165Y	RG-59,210

- See page 116 for cable assembly procedures: CM-03

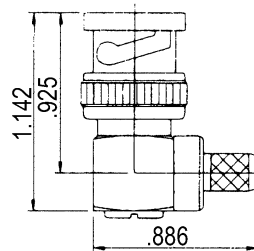
Straight Jack Crimp



Part Number	Cable
581-900-0630Y	RG-316
581-900-0635Y	RG-179

- See page 116 for cable assembly procedures: CM-03

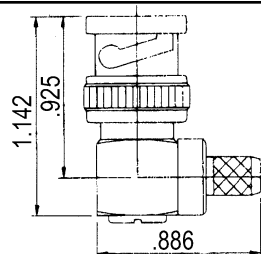
Right Angle Plug Crimp (Solder Contact)



Part Number	Cable
582-900-1160Y	RG-303,141
582-900-1165Y	RG-59,210

- See page 119 for cable assembly procedures: CM-06

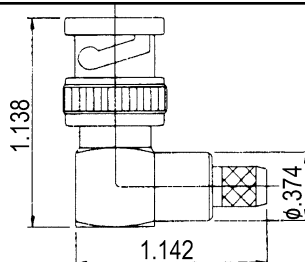
Right Angle Plug Crimp (Solder Contact)



Part Number	Cable
582-900-0630Y	RG-174,316
582-900-0635Y	RG-179

- See page 119 for cable assembly procedures: CM-06

Right Angle Plug Crimp (Crimp Contact)



Part Number	Cable
582-900-1162Y	RG-303,141
582-900-1167Y	RG-59,210

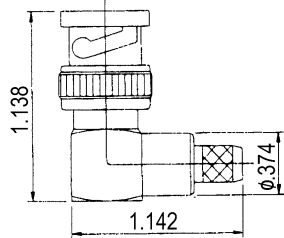
- See page 118 for cable assembly procedures: CM-05

Note: Dimensions shown in inches.

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BNC: Flexible Cable - Crimp Attachment

Right Angle Plug Crimp (Crimp Contact)

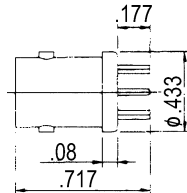


Part Number	Cable
582-900-0632Y	RG-316
582-900-0636Y	RG-179

• See page 118 for cable assembly procedures: CM-05

BNC: Printed Circuit Board Receptacles

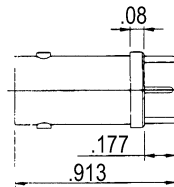
Straight PCB Mount Jack Receptacle



Part Number	Mounting Hole
581-090-0040Y	No. 090

• See page 83 for mounting hole layout.

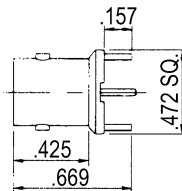
Straight PCB Mount Jack Receptacle



Part Number	Mounting Hole
581-090-0041Y	No. 090

• See page 83 for mounting hole layout.

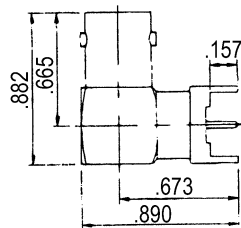
Straight PCB Mount Jack Receptacle



Part Number	Mounting Hole
581-071-0040Y	No. 071 A

• See page 83 for mounting hole layout.

Right Angle PCB Mount Jack Receptacle

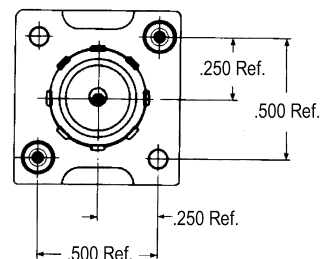
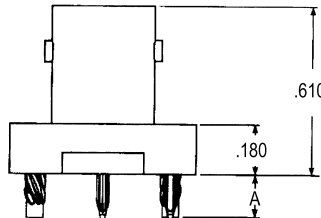
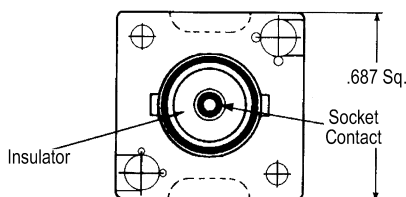


Part Number	Mounting Hole
583-071-0040Y	No. 071 C

• See page 83 for mounting hole layout.

BNC: 75 Ohm C-Press® Press-fit Connector

Press-fit BNC



Part Number	A
121-13305-1	.17
121-13305-2	.25

• See page 84 for mounting hole layout.

Note: Dimensions shown in inches and millimeters.

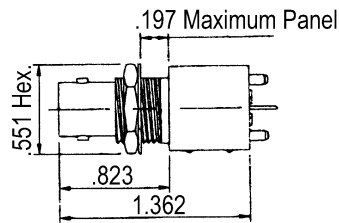
• C-Press® is a trademark of Litton Systems, Inc.

Winchester/Retconn

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BNC: Printed Circuit Board Receptacles

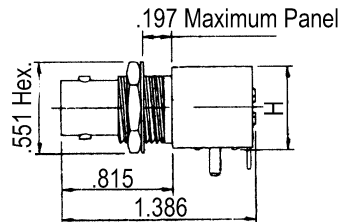
Straight PCB Mount Jack Receptacle (Valox Housing)



Part Number	Mounting Hole
581-024-9141Y	No. 024 A

• See page 83 for mounting hole layout.

Right Angle PCB Mount Jack Receptacle (Valox Housing)

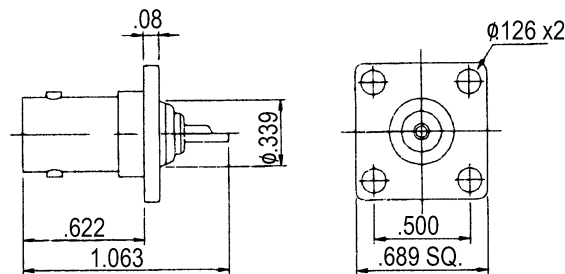


Part Number	Mounting Hole
583-024-6741Y (standard H=.614)	No. 024 A
583-024-6742Y (low profile H=.516)	No. 024 A

• See page 83 for mounting hole layout.

BNC: Panel Mount Receptacle (Solder Pot Contact)

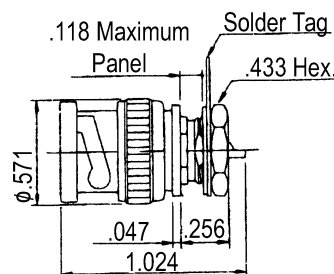
Square Flange Jack Receptacle



Part Number
581-050-0000Y

BNC: Bulkhead Mount Receptacles (Solder Pot Contact)

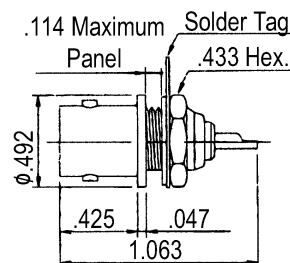
Straight Bulkhead Mount Receptacle



Part Number	Mounting Hole
580-029-0000Y	No. 029

• See page 83 for mounting hole layout.

Straight Bulkhead Jack Receptacle



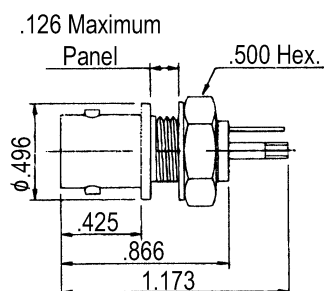
Part Number	Mounting Hole
581-029-0000Y diecast body	No. 029

• See page 83 for mounting hole layout.

Note: Dimensions shown in inches.

BNC: Bulkhead Mount Receptacles (Solder Pot Contact)

Isolated Bulkhead Jack Receptacle

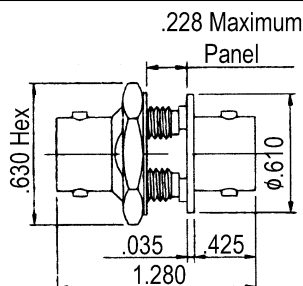


Part Number	Mounting Hole
581-029-0001Y	No. 029

• See page 83 for mounting hole layout.

BNC: Same Series Adapters

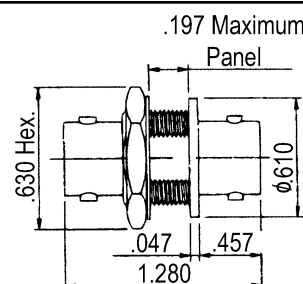
Bulkhead Jack - Jack



Part Number	Mounting Hole
581-581-2400Y	No. 024

• See page 83 for mounting hole layout.

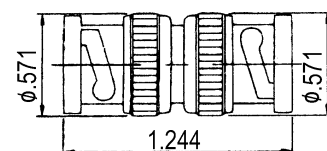
Isolated Bulkhead Jack - Jack



Part Number	Mounting Hole
581-581-2401Y	No. 024

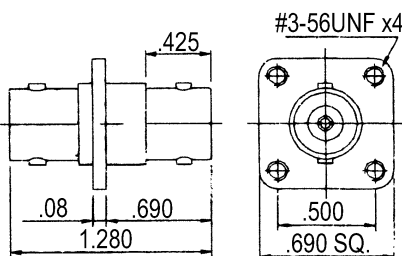
• See page 83 for mounting hole layout.

Plug - Plug



Part Number
580-580-0000Y

Square Flange Jack - Jack

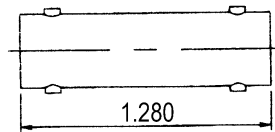


Part Number
581-581-5000Y

Note: Dimensions shown in inches.

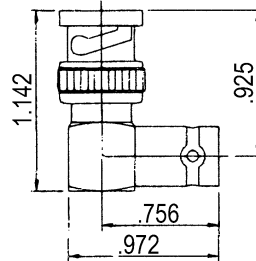
BNC: Same Series Adapters

Jack - Jack



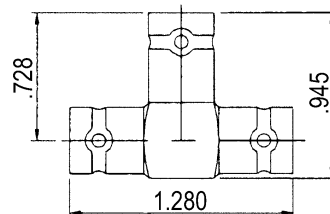
Part Number
581-581-0000Y diecast body

Right Angle Plug - Jack



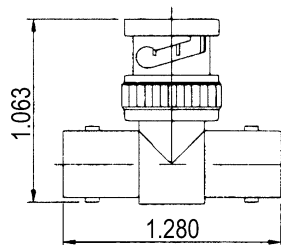
Part Number
582-583-0000Y

Tee Adapter Jack - Jack - Jack



Part Number
585-585-0000Y

Tee Adapter Jack - Plug - Jack



Part Number
584-585-0000Y

Note: Dimensions shown in inches.