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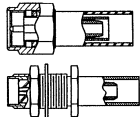
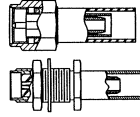
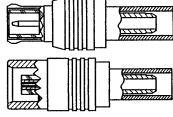
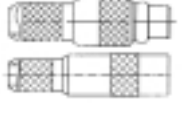
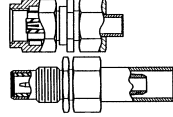
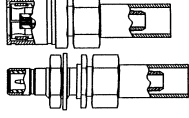
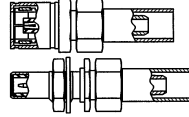
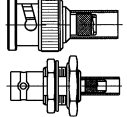
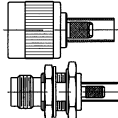
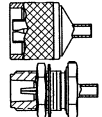
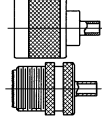
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While the information in this publication is believed to be accurate and reliable, all data presented is subject to change without notice. Winchester/Retconn disclaims responsibility for any damages resulting from application or any incompleteness or inaccuracies in the information presented. Consult factory for specific information on the latest design specifications.

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OVERVIEW • RF Product Line

SERIES	DESCRIPTION	CENTER CONTACT	OUTER BODY	TYPICAL VIEW
25	SMA, stainless steel, in accordance with MIL-C-39012 or flexible & semi-rigid cables.	Plug: Male Pin Jack: Female Socket	Plug: Threaded Coupling Nut Jack: Threaded Body	
35	SMA, brass, in accordance with MIL-C-39012. (brass body) flexible & semi-rigid cable	Plug: Male Pin Jack: Female Socket	Plug: Threaded Coupling Nut Jack: Threaded Body	
45	MCX, designed to meet CECC 22220.	Plug: Male Pin Jack: Female Socket	Plug: Beryllium copper outer contact Jack: Brass	
47	MMCX, designed to meet CECC 22340.	Plug: Male Pin Jack: Female Socket	Plug: Beryllium copper outer contact Jack: Brass	
50	SMC, in accordance with MIL-C-39012. Threaded coupling, for flexible & semi-rigid cable.	Plug: Female Socket Jack: Male Pin	Plug: Threaded Coupling Nut Jack: Threaded Body	
51	SMB, in accordance with MIL-C-39012. Snap-on coupling, for flexible & semi-rigid cable.	Plug: Female Socket Jack: Male Pin	Plug: Brass outer contact with beryllium copper ring Jack: Male Pin	
52	Slide-On similar to SMB no snap, low insertion force.	Plug: Male Pin Receptacle: Female Socket	Plug: Bayonet Receptacle: Bayonet Tabs	
58	BNC	Plug: Male Pin Receptacle: Female Socket	Plug: Bayonet Receptacle: Bayonet Tabs	
59	TNC	Plug: Male Pin Receptacle: Female Socket	Plug: Threaded Coupling Nut Receptacle: Threaded Body	
60	Type N, brass, high power.	Plug: Male Pin Jack: Female Socket	Plug: Threaded Coupling Nut Jack: Threaded Body	
62	Mini-UHF	Plug: Male Pin Receptacle: Female Socket	Plug: Threaded Coupling Nut Receptacle: Threaded Body	

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SMA STAINLESS STEEL: Solder, Semi-rigid Cable

Straight Plug

Figure 1

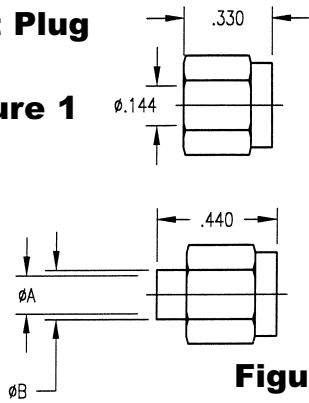
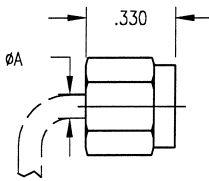


Figure 2

Part Number	Cable	FIG.	A	B	Contact	Insulator	Cable Assy. Procedure
250-500-1410G	.141 SR	1	-	-	without	without	5-01
250-500-1411G	.141 SR	2	.144	.180	without	without	5-01
250-500-0850G	.085 SR	2	.089	.120	with	unassembled	5-02
250-500-0858G	.085 SR	2	.089	.120	with	assembled	5-02
250-500-1412G	.141 SR	2	.144	.180	with	unassembled	5-02
250-500-1418G	.141 SR	2	.144	.180	with	assembled	5-02

- See pages 85,86 for cable assembly procedures: 5-01,5-02
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

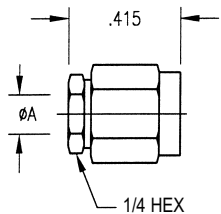
Straight Plug (Low Profile) With Center Contact



Part Number	Cable	A
250-500-0853G	.085 SR	.086
250-500-1413G	.141 SR	.141

- See page 86 for cable assembly procedures: No. 5-02
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

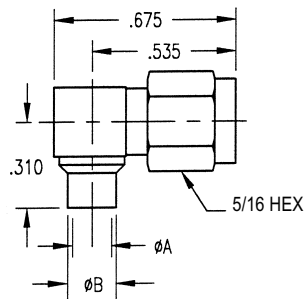
Straight Plug (Low Profile)



Part Number	Cable	A	Contact	Insulator	Cable Assy. Procedure
250-500-0855G	.085 SR	.089	with	assembled	5-02
250-500-1415G	.141 SR	.144	with	assembled	5-02
250-500-1414G	.141 SR	.144	without	without	5-01

- See pages 85,86 for cable assembly procedures: 5-01,5-02
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Right Angle Plug



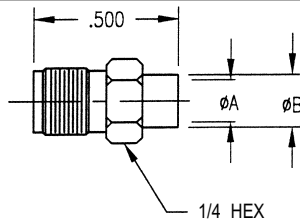
Part Number	Cable	A	B
252-500-0850G	.085 SR	.089	.120
252-500-1410G	.141 SR	.144	.180

- See page 87 for cable assembly procedures: No. 5-03
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Note: Dimensions shown in inches.

SMA STAINLESS STEEL: Solder, Semi-rigid Cable

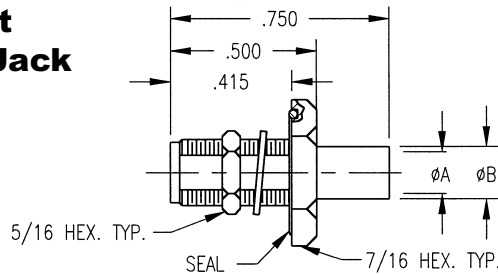
Straight Jack



Part Number	Cable	A	B
251-500-0850G	.085 SR	.089	.120
251-500-1410G	.141 SR	.144	.180

- See page 86 for cable assembly procedures: No. 5-02
- Part number shown is for gold plated.

Straight Bulkhead Jack



Part Number	Cable	A	B	Mounting Hole
251-575-0850G	.085 SR	.089	.120	No. 075
251-575-1410G	.141 SR	.144	.180	No. 075

- See page 83 for mounting hole layout.
- See page 86 for cable assembly procedures: No. 5-02
- Part number shown is for gold plated.

Straight Jack Flange Mount

Figure 1

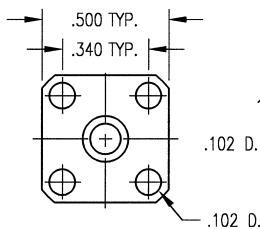
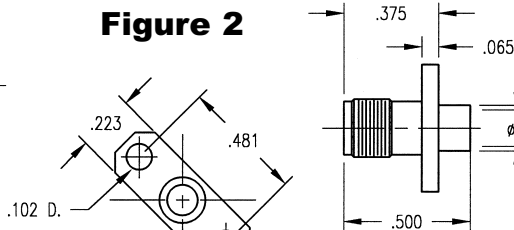


Figure 2

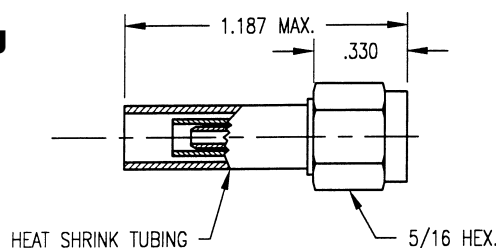


Part Number	Cable	A	B	Mounting Hole	Figure
251-565-0850G	.085 SR	.089	.120	No. 065	1
251-565-1410G	.141 SR	.144	.180	No. 065	1
251-566-0850G	.085 SR	.089	.120	No. 066	2
251-566-1410G	.141 SR	.144	.180	No. 066	2

- See page 83 for mounting hole layout.
- See page 86 for cable assembly procedures: No. 5-02
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

SMA STAINLESS STEEL: Solder Flexible Cable

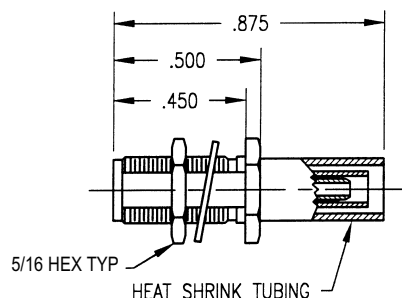
Straight Plug Non-Captive Contact



Part Number	Cable
250-500-0630G	RG-316
250-500-0631G	RG-316 double shielded
250-500-1160G	RG-303, 141
250-500-1161G	RG-142, 400

- See page 88 for cable assembly procedures: No. 5-04
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Straight Bulkhead Jack Non-Captive Contact



Part Number	Cable	Mounting Hole
251-575-0630G	RG-316	No. 075
251-575-0631G	RG-316 double shielded	No. 075
251-575-1160G	RG-303, 141	No. 075
251-575-1161G	RG-142, 400	No. 075

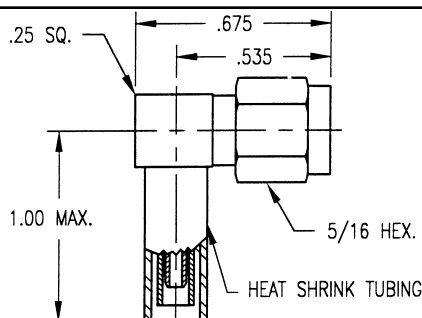
- See page 83 for mounting hole layout.
- See page 88 for cable assembly procedures: No. 5-04
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Note: Dimensions shown in inches.

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SMA STAINLESS STEEL: Solder Flexible Cable

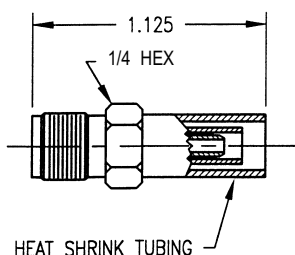
12.4 GHz Right Angle Plug



Part Number	Cable
252-500-0630G	RG-316
252-500-0631G	RG-316 double shielded
252-500-1160G	RG-303, 141
252-500-1161G	RG-142, 400

- See page 89 for cable assembly procedures: No. 5-05
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Straight Jack Non-Captive Contact

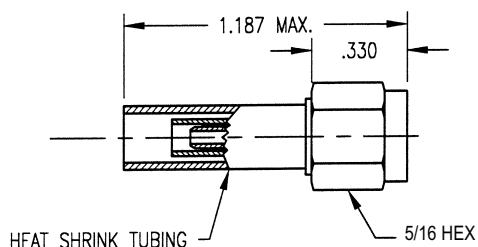


Part Number	Cable
251-500-0630G	RG-316
251-500-0631G	RG-316 double shielded
251-500-1160G	RG-303, 141
251-500-1161G	RG-142, 400

- See page 88 for cable assembly procedures: No. 5-04
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

SMA STAINLESS STEEL: Crimp Flexible Cable

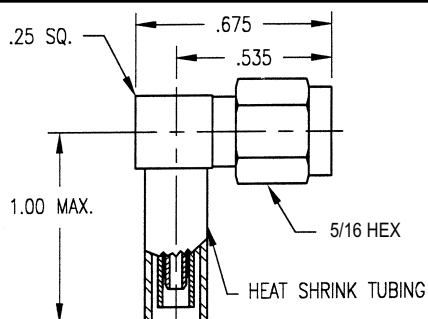
Straight Plug Non-Captive Contact



Part Number	Cable
250-900-0630G	RG-316
250-900-0631G	RG-316 double shielded
250-900-1160G	RG-303, 141
250-900-1161G	RG-142, 400
250-900-1070G	RG-180

- See page 108 for cable assembly procedures: No. 9-04
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

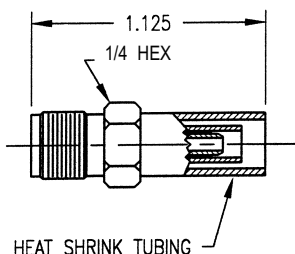
12.4 GHz Right Angle Plug



Part Number	Cable
252-900-0630G	RG-316
252-900-0631G	RG-316 double shielded
252-900-1160G	RG-303, 141
252-900-1161G	RG-142, 400
252-900-1070G	RG-180

- See page 109 for cable assembly procedures: No. 9-05
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Straight Jack Non-Captive Contact



Part Number	Cable
251-900-0630G	RG-316
251-900-0631G	RG-316 double shielded
251-900-1160G	RG-303, 141
251-900-1161G	RG-142, 400

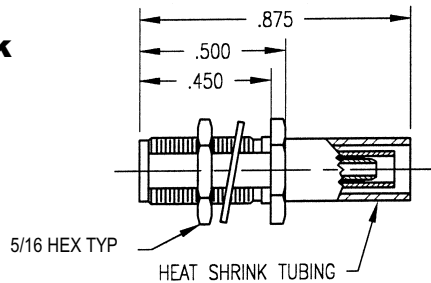
- See page 108 for cable assembly procedures: No. 9-04
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Note: Dimensions shown in inches.

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SMA STAINLESS STEEL: Crimp Flexible Cable

Straight Bulkhead Jack Non-Captive Contact

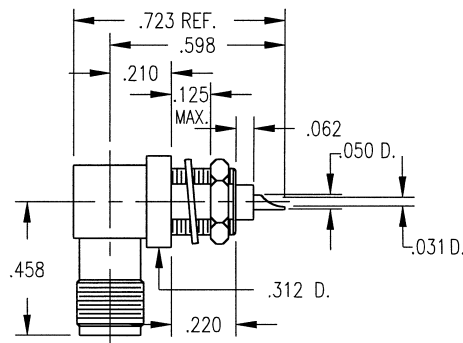


Part Number	Cable	Mounting Hole
251-975-0630G	RG-316	No. 075
251-975-0631G	RG-316 double shielded	No. 075
251-975-1160G	RG-303, 141	No. 075
251-975-1161G	RG-142, 400	No. 075

- See page 83 for mounting hole layout.
- See page 108 for cable assembly procedures: No. 9-04
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

SMA STAINLESS STEEL: Bulkhead Mount Receptacle

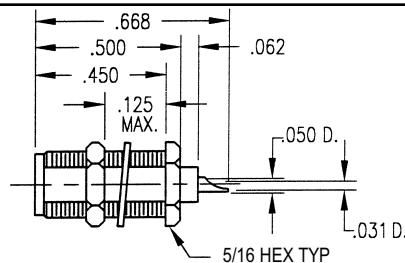
Right Angle Jack



Part Number	Mounting Hole
253-075-0000G	No. 075

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

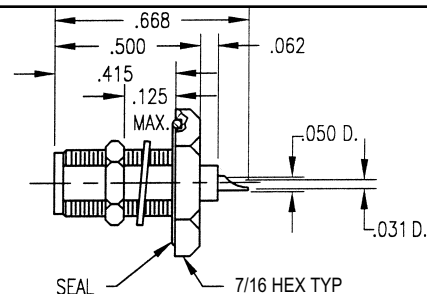
Straight Bulkhead Jack (Rear Mount)



Part Number	Mounting Hole
251-075-0000G	No. 075

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

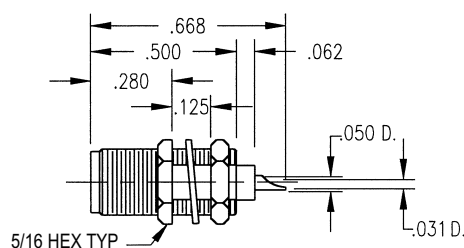
Straight Bulkhead Jack (Rear Mount)



Part Number	Mounting Hole
251-075-0004G	No. 075

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Straight Bulkhead Jack (Front Mount)



Part Number	Mounting Hole
251-075-0002G	No. 075

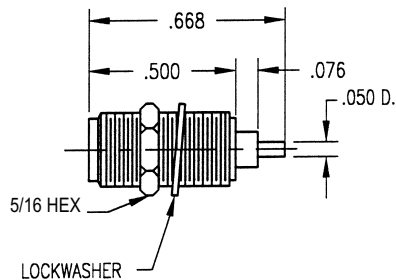
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Note: Dimensions shown in inches.

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SMA STAINLESS STEEL: Bulkhead Mount Receptacle

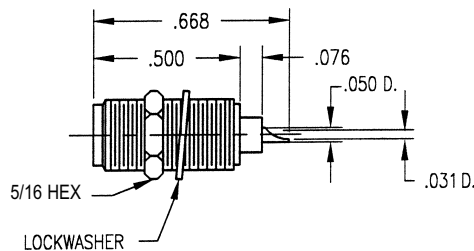
Straight Jack Feed-Thru Straight Terminal



Part Number	Mounting Hole
251-074-0040G	No. 074

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

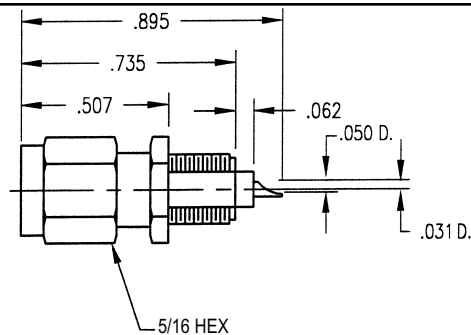
Straight Jack Feed-Thru Solder Pot



Part Number	Mounting Hole
251-074-0000G	No. 074

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Straight Plug Bulkhead

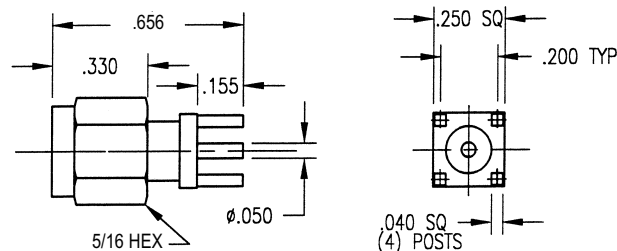


Part Number	Mounting Hole
250-075-0002G	No. 075

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

SMA STAINLESS STEEL: Printed Circuit Receptacles

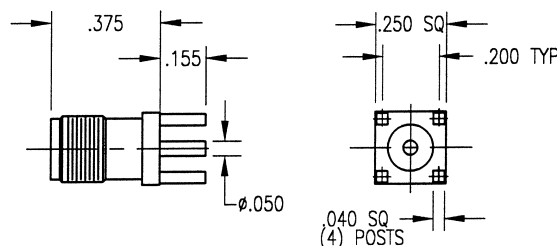
Straight Plug



Part Number	Mounting Hole
250-060-0040G	No. 060

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

Straight Jack



Part Number	Mounting Hole
251-060-0040G	No. 060

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

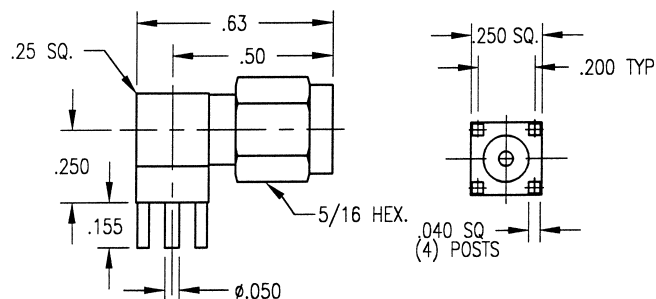
Note: Dimensions shown in inches.

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SMA STAINLESS STEEL: Printed Circuit Receptacles

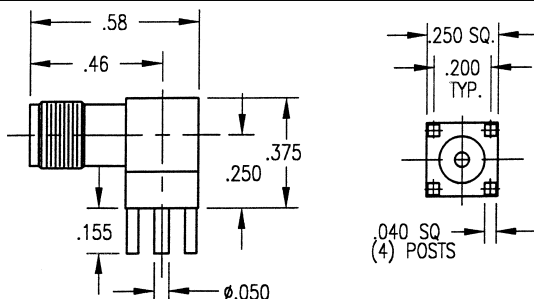
Right Angle Plug



Part Number	Mounting Hole
252-060-0040G	No. 060

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

Right Angle Jack



Part Number	Mounting Hole
253-060-0040G	No. 060

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

SMA STAINLESS STEEL: Flange Mount Receptacle

Straight Plug Flange Mount

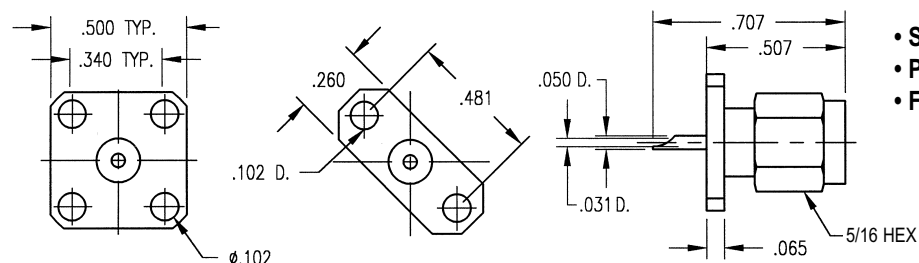


Figure 1

Figure 2

Part Number	Mounting Hole	Figure
250-065-0000G	No. 065	1
250-066-0000G	No. 066	2

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Straight Jack Flange Mount

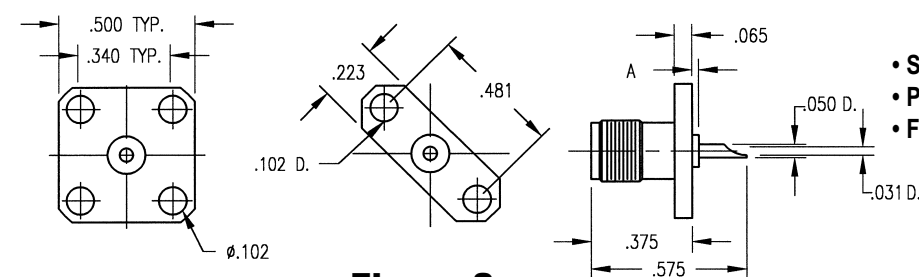


Figure 1

Figure 2

Part Number	Mounting Hole	A	Figure
251-065-0000G	No. 065	.000	1
251-066-0000G	No. 066	.000	2
251-065-0001G	No. 065	.025	1
251-066-0001G	No. 066	.025	2

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

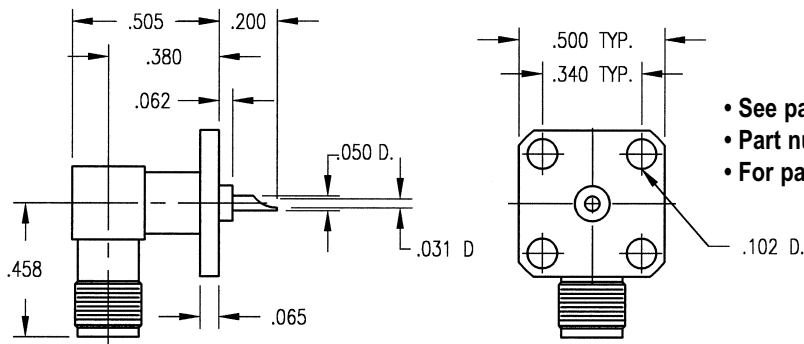
Note: Dimensions shown in inches.

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SMA STAINLESS STEEL: Flange Mount Receptacle

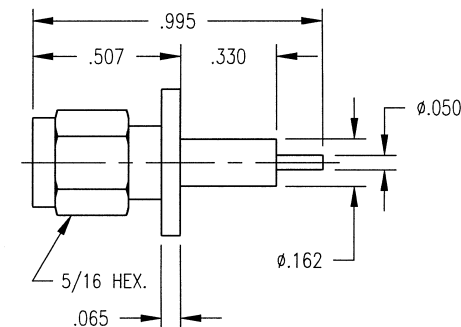
Right Angle Jack Flange Mount



Part Number	Mounting Hole
253-065-0000G	No. 065

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Straight Plug Flange Mount Straight Contact



Part Number	Mounting Hole	Contact	Figure
250-065-0040G	No. 065	captivated	1
250-066-0040G	No. 066	captivated	2
250-055-0040G	No. 055	captivated	3
250-065-0041G	No. 065	non-captivated	1
250-066-0041G	No. 066	non-captivated	2
250-055-0041G	No. 055	non-captivated	3

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Figure 1

Figure 2

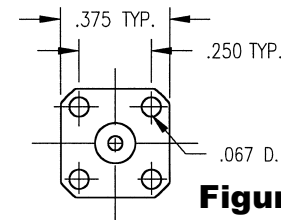
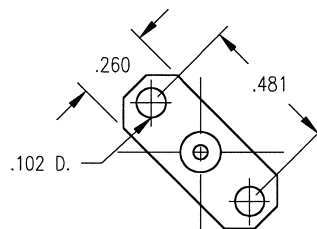
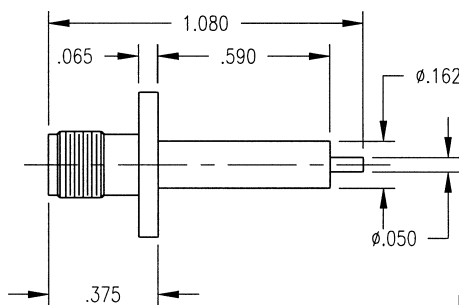


Figure 3

Straight Jack Flange Mount Straight Contact



Part Number	Mounting Hole	Contact	Figure
251-065-0040G	No. 065	captivated	1
251-066-0040G	No. 066	captivated	2
251-055-0040G	No. 055	captivated	3
251-065-0041G	No. 065	non-captivated	1
251-066-0041G	No. 066	non-captivated	2
251-055-0041G	No. 055	non-captivated	3

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Figure 1

Figure 2

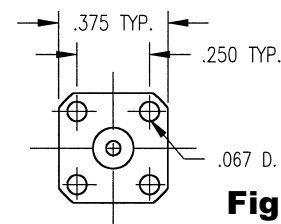
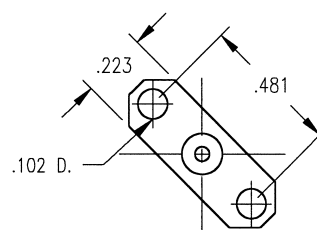


Figure 3

Note: Dimensions shown in inches.

Winchester/Retconn

SMA STAINLESS STEEL: Flange Mount Receptacles

Straight Plug Flange Mount

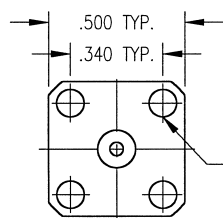
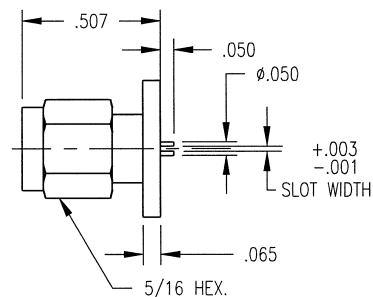


Figure 1

Figure 2

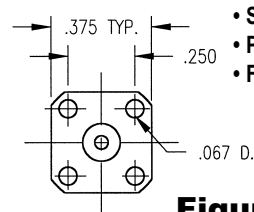
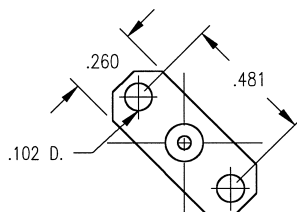


Figure 3

Part Number (Captivated Contact)	Part Number (Non-Captivated)	Mounting Hole	Figure	Slot Width
250-065-0022G	250-065-1022G	No. 065	1	.012
250-065-0023G	250-065-1023G	No. 065	1	.018
250-065-0024G	250-065-1024G	No. 065	1	.028
250-065-0025G	250-065-1025G	No. 065	1	.036
250-055-0022G	250-055-1022G	No. 055	3	.012
250-055-0023G	250-055-1023G	No. 055	3	.018
250-055-0024G	250-055-1024G	No. 055	3	.028
250-055-0025G	250-055-1025G	No. 055	3	.036
250-066-0022G	250-066-1022G	No. 066	2	.012
250-066-0023G	250-066-1023G	No. 066	2	.018
250-066-0024G	250-066-1024G	No. 066	2	.028
250-066-0025G	250-066-1025G	No. 066	2	.036

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Straight Jack Flange Mount

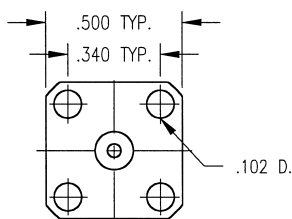
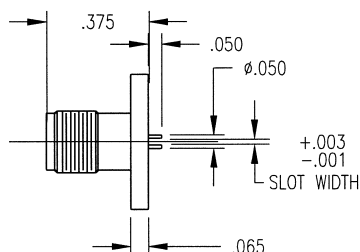


Figure 1

Figure 2

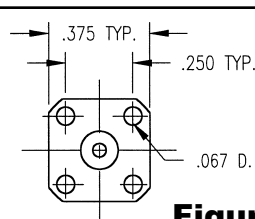
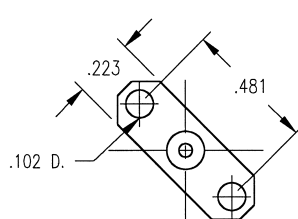


Figure 3

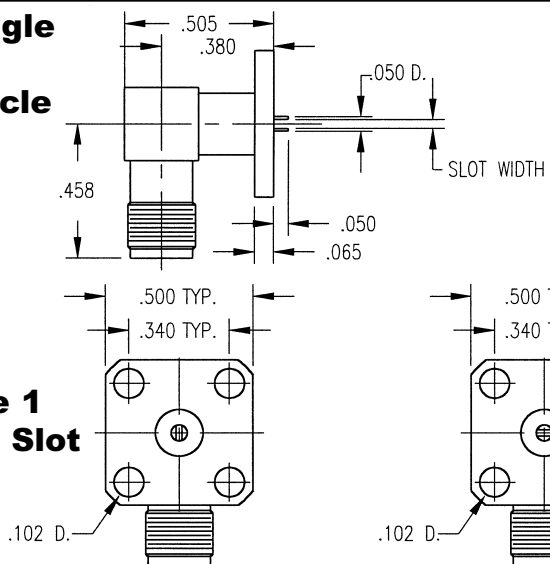
Part Number (Captivated Contact)	Part Number (Non-Captivated)	Mounting Hole	Figure	Slot Width
251-065-0022G	251-065-1021G	No. 065	1	.012
251-065-0023G	251-065-1022G	No. 065	1	.018
251-065-0024G	251-065-1023G	No. 065	1	.028
251-065-0025G	251-065-1024G	No. 065	1	.036
251-055-0022G	251-055-1021G	No. 055	3	.012
251-055-0023G	251-055-1022G	No. 055	3	.018
251-055-0024G	251-055-1023G	No. 055	3	.028
251-055-0025G	251-055-1024G	No. 055	3	.036
251-066-0022G	251-066-1021G	No. 066	2	.012
251-066-0023G	251-066-1022G	No. 066	2	.018
251-066-0024G	251-066-1023G	No. 066	2	.028
251-066-0025G	251-066-1024G	No. 066	2	.036

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Note: Dimensions shown in inches.

SMA STAINLESS STEEL: FLANGE MOUNT RECEPTACLE

Right Angle Jack Receptacle



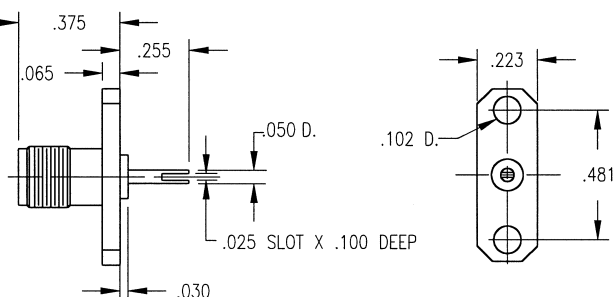
**Figure 1
Vertical Slot**

Part Number	Mounting Hole	Figure	Slot Width
253-065-0022G	No. 065	1	.012
253-065-0023G	No. 065	1	.018
253-065-0024G	No. 065	1	.028
253-065-0025G	No. 065	1	.036
253-065-0026G	No. 065	2	.012
253-065-0027G	No. 065	2	.018
253-065-0028G	No. 065	2	.028
253-065-0029G	No. 065	2	.036

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

**Figure 2
Horizontal Slot**

Straight Jack Flange Mount



Part Number	Mounting Hole
251-066-0025G	No. 066

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Straight Jack Flange Mount Tab Contact

Figure 2

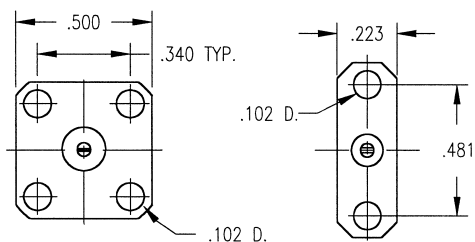
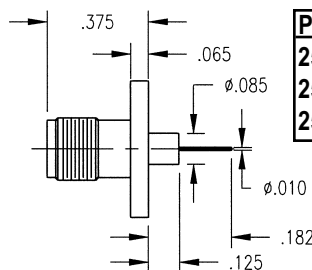


Figure 1



Part Number	Mounting Hole	Contact	Figure
251-065-0032G	No. 065	captivated	1
251-066-0032G	No. 066	captivated	2
251-055-0032G	No. 055	captivated	3

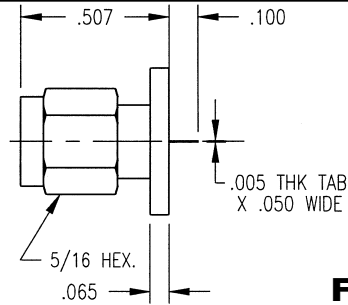
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Figure 3

Note: Dimensions shown in inches.

SMA STAINLESS STEEL: Flange Mount Receptacle

Straight Plug Flange Mount Tab Contact



Part Number	Mounting Hole	Contact	Figure
250-065-0030G	No. 065	captivated	1
250-066-0030G	No. 066	captivated	2
250-055-0030G	No. 055	captivated	3
250-065-0031G	No. 065	non-captivated	1
250-066-0031G	No. 066	non-captivated	2
250-055-0031G	No. 055	non-captivated	3

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Figure 1

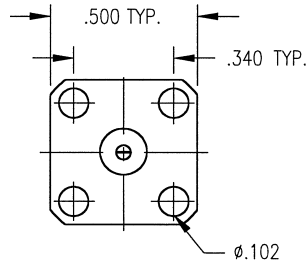


Figure 2

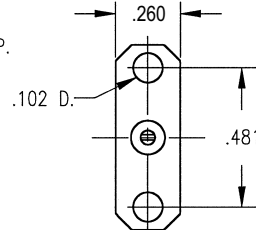
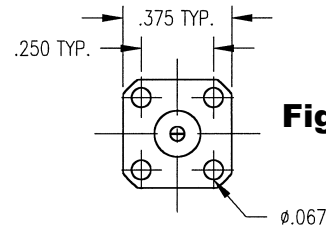
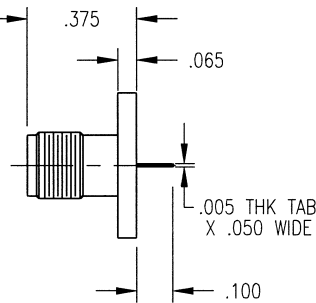


Figure 3



Straight Jack Flange Mount Tab Contact



Part Number	Mounting Hole	Contact	Figure
251-065-0030G	No. 065	captivated	1
251-066-0030G	No. 066	captivated	2
251-055-0030G	No. 055	captivated	3
251-065-0031G	No. 065	non-captivated	1
251-066-0031G	No. 066	non-captivated	2
251-055-0031G	No. 055	non-captivated	3

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Figure 1

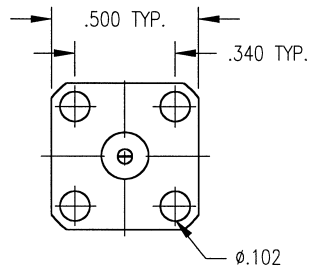


Figure 2

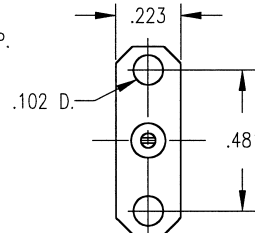
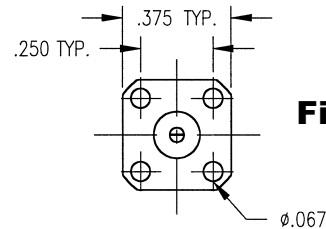
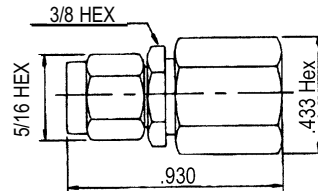


Figure 3



SMA: Direct Solder Attachment

Straight Plug

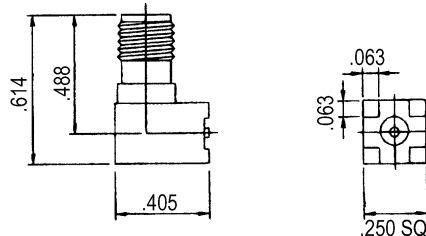


Part Number	Cable
250-600-2500Y	RG-401 (.250")

• Nickel Body

SMA: Surface Mount Receptacles

Right Angle Surface Mount Jack Receptacle



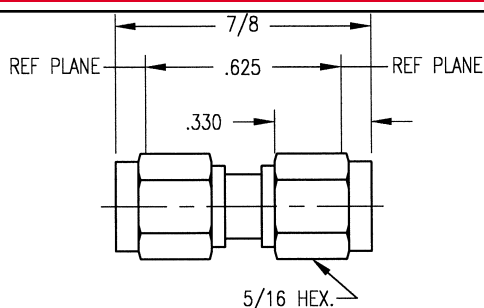
Part Number
253-077-0040Y

Winchester/Retconn

Note: Dimensions shown in inches.

SMA IN-SERIES: Stainless Steel Adapters

Plug to Plug



Part Number
250-250-0000G

- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Jack to Jack

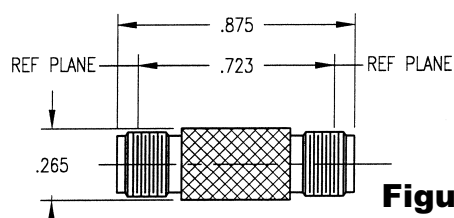


Figure 1

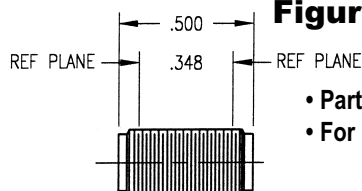
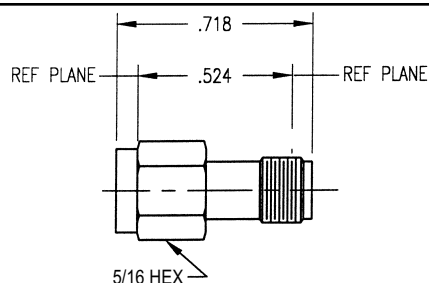


Figure 2

Part Number	Figure
251-251-0000G	1
251-251-0001G	2

- Part number shown is for gold plated.
- For passivated version change suffix to "P".

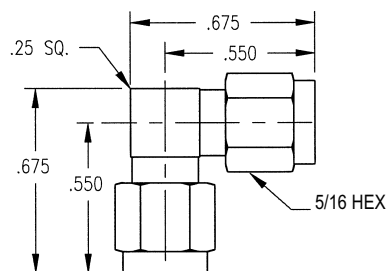
Plug to Jack



Part Number
250-251-0000G

- Part number shown is for gold plated.
- For passivated version change suffix to "P".

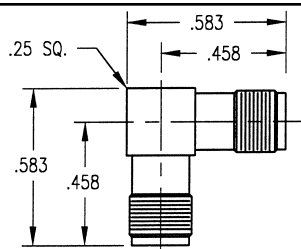
Right Angle Plug to Plug



Part Number
252-252-0000G

- Part number shown is for gold plated.
- For passivated version change suffix to "P".

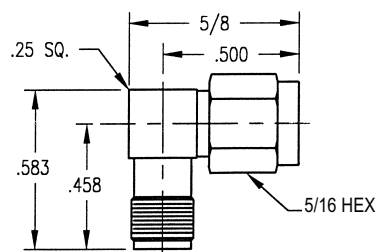
Right Angle Jack to Jack



Part Number
253-253-0000G

- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Right Angle Plug to Jack



Part Number
252-253-0000G

- Part number shown is for gold plated.
- For passivated version change suffix to "P".

Note: Dimensions shown in inches.

Winchester/Retconn

SMA Brass: Specifications & Interface Dimensions

MATERIALS:

Body, Body Components: Brass per ASTM B16 1/2 HD
 Female Contacts: Beryllium Copper per ASTM B196
 Male Contacts: Brass per ASTM B16 1/2 HD
 Insulators: Teflon per ASTM D1710
 Crimp Ferrule: Annealed Copper Alloy
 Gaskets: Silicone Rubber per ZZ-R-765

Finish:

Center Contact: Gold per MIL-G-45204
 Other Metal Parts: Gold or Nickel Plated To Meet The
 Finish And Corrosion Requirements per MIL-C-39012

MATING CHARACTERISTICS:

Engagement Forces: Torque: 2 Inch-Pounds Maximum
 Mating Torque: 7 to 10 Inch-Pounds
 Coupling Proof Torque: 15 Inch-Pounds Minimum
 Coupling Nut Retention: 60 lbs. Minimum

ELECTRICAL:

Impedance: 50 Ohms Nominal
 Frequency Range: 0 to 18.0 GHz

Voltage Rating (VRMS) Sea Level 70K FT

Connectors For RG-196	170	40
Connectors For RG-316	250	65
Connectors For RG-142	335	85

Insulation Resistance: 5000 Megohms Minimum

Contact Resistance: (Milliohms Maximum)

	Initial	After Environment
Center Contact	3.0	4.0
Outer Contact	2.0	3.0
Braid to Body	0.5	N/A

ELECTRICAL:

Voltage Standing Wave Ratio (VSWR):

	Straight	Right Angle
RG-178 Braided	1.20+ .025F	1.20+ .03F
RG-316 Braided	1.15+ .02F	1.15+ .03F
RG-142 Braided	1.15+ .01F	1.15+ .02F

Dielectric Withstanding Voltage (DWV) At Sea Level:

Connectors For RG-196	500 VRMS
Connectors For RG-316	750 VRMS
Connectors For RG-142	1000 VRMS

Corona Level: VOLTS @ 70K Feet

Connectors For RG-196	125 Minimum
Connectors For RG-316	190 Minimum
Connectors For RG-142	250 Minimum

RF High Potential Withstanding Voltage:

Frequency: 5 MHz

Leakage Current: N/A

Connectors For RG-178	335 VRMS
Connectors For RG-316	500 VRMS
Connectors For RG-142	670 VRMS

R.F. Leakage: -60 dB Minimum @ 2-3 GHz

ENVIRONMENTAL:

Operating Temperature: -65°C To +165°C

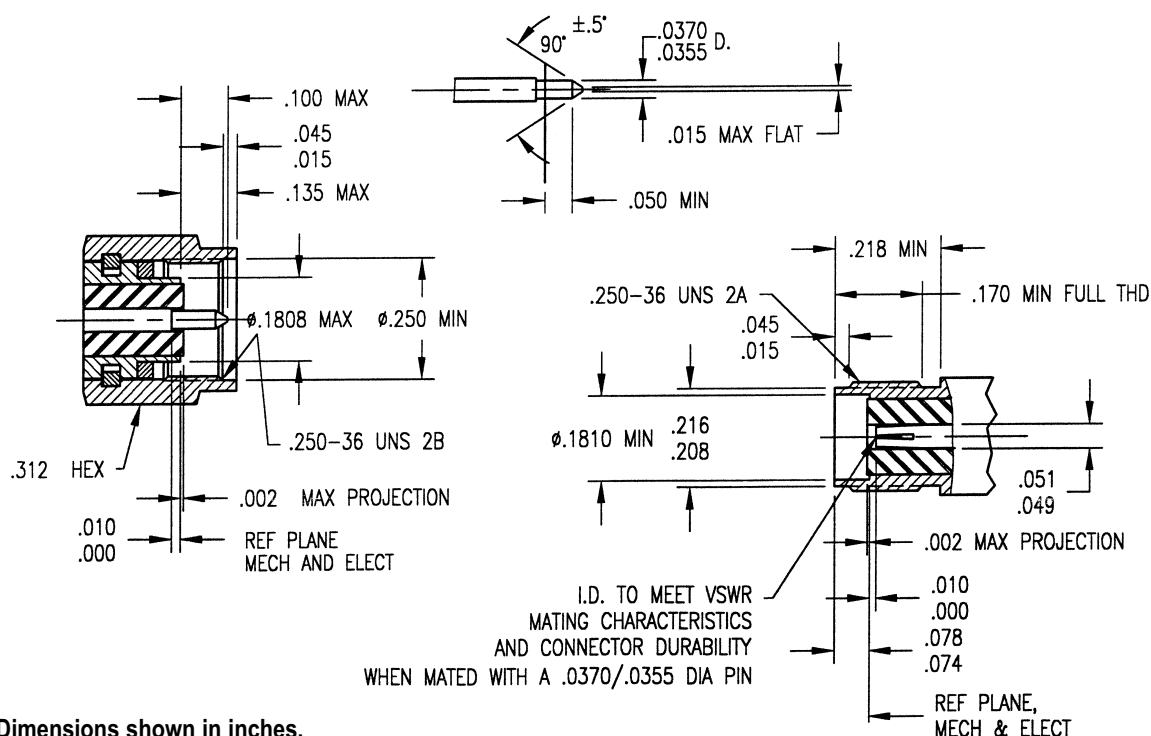
Corrosion (Salt Spray): MIL-STD-202, Method 101, Condition B

Vibration, High Frequency: MIL-STD-204, Condition D, (20 G's)

Shock: MIL-STD-202, Method 204, Test Condition I, (100 G's)

Temperature Cycling: MIL-STD-202, Method 102, Condition C

Moisture Resistance: MIL-STD-202, Method 106.



Note: Dimensions shown in inches.

Winchester/Retconn

SMA Brass: Solder, Semi-rigid Cable

Straight Plug

Figure 1

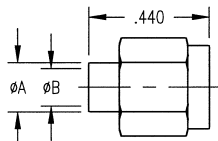
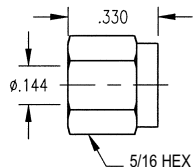
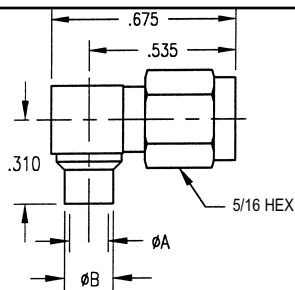


Figure 2

Part Number	Cable	Figure	A	B	Contact	Insulator	Cable Asse.Proc.
350-500-1410H	.141 SR	1	-	-	without	without	5-01
350-500-1411H	.141 SR	1	.144	.180	without	without	5-01
350-500-0850H	.085 SR	2	.089	.120	with	unassembled	5-02
350-500-0858H	.085 SR	2	.089	.120	with	assembled	5-02
350-500-1412H	.141 SR	2	.144	.180	with	unassembled	5-02
350-500-1418H	.141 SR	2	.144	.180	with	assembled	5-02

- See page 85,86 for cable assembly procedures: 5-01,5-02
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

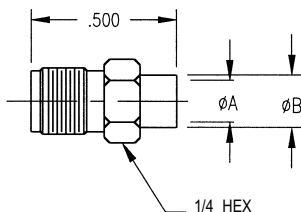
12.4 GHz Right Angle Plug



Part Number	Cable	A	B
352-500-0850H	.085 SR	.089	.120
352-500-1410H	.141 SR	.144	.180

- See page 87 for cable assembly procedures: 5-03
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

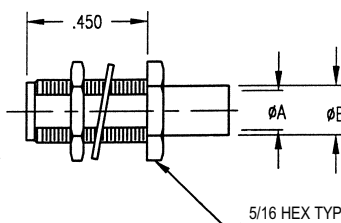
Straight Jack



Part Number	Cable	A	B
351-500-0850H	.085 SR	.089	.120
351-500-1410H	.141 SR	.144	.180

- See page 86 for cable assembly procedures: 5-02
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Jack Bulkhead

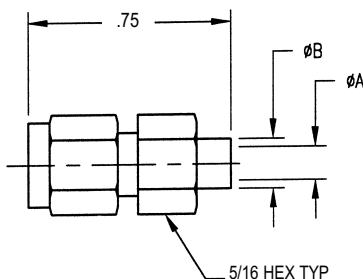


Part Number	Cable	A	B	Mounting Hole
351-575-0850H	.085 SR	.089	.120	No. 075
351-575-1410H	.141 SR	.144	.180	No. 075

- See page 86 for cable assembly procedures: 5-02
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMA: Brass Solder/Clamp, Semi-rigid

Straight Plug Captive Contact



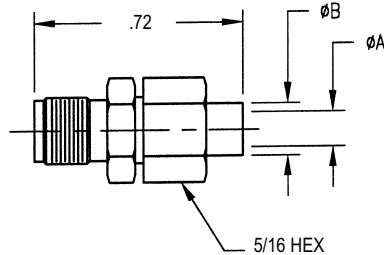
Part Number	Cable	A	B
350-600-0850H	.085 SR	.089	.120
350-600-1410H	.141 SR	.144	.180

- See page 95 for cable assembly procedures: 6-01
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.

SMA Brass: Solder/Clamp, Semi-rigid Cable

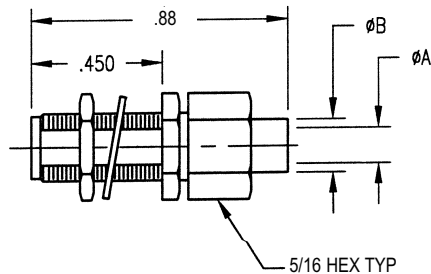
Straight Jack Captive Contact



Part Number	Cable	A	B
351-600-0850H	.085 SR	.089	.120
351-600-1410H	.141 SR	.144	.180

- See page 95 for cable assembly procedures: 6-01
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Jack Bulkhead Mount Captive Contact

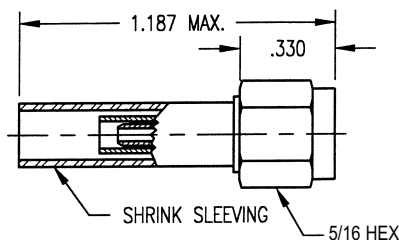


Part Number	Cable	A	B	Mounting Hole
351-675-0850H	.085 SR	.089	.120	No. 075
351-675-1410H	.141 SR	.144	.180	No. 075

- See page 95 for cable assembly procedures: 6-01
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMA Brass: Crimp Flexible Cable

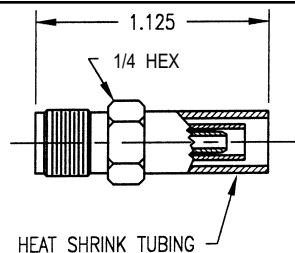
Straight Plug Non-Captive Contact



Part Number	Cable
350-900-0630H	RG-316
350-900-0631H	RG-316 double shielded
350-900-1160H	RG-303, 141
350-900-1161H	RG-142, 400

- See page 108 for cable assembly procedures: 9-04
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

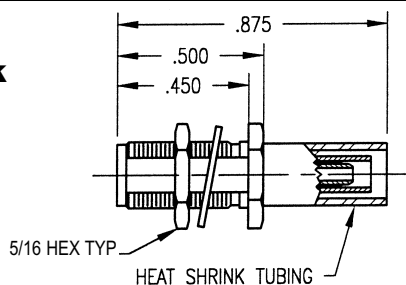
Straight Jack Non-Captive Contact



Part Number	Cable
351-900-0630H	RG-316
351-900-0631H	RG-316 double shielded
351-900-1160H	RG-303, 141
351-900-1161H	RG-142, 400

- See page 108 for cable assembly procedures: 9-04
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Bulkhead Jack Non-Captive Contact



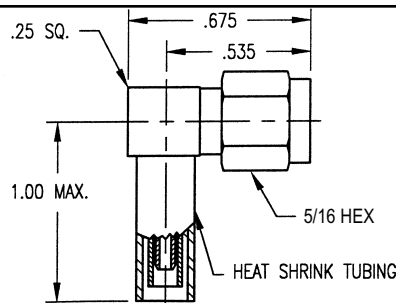
Part Number	Cable	Mounting Hole
351-975-0630H	RG-316	No. 075
351-975-0631H	RG-316 double shielded	No. 075
351-975-1160H	RG-303, 141	No. 075
351-975-1161H	RG-142, 400	No. 075

- See page 108 for cable assembly procedures: 9-04
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.

SMA Brass: Crimp Flexible Cable

Right Angle Plug

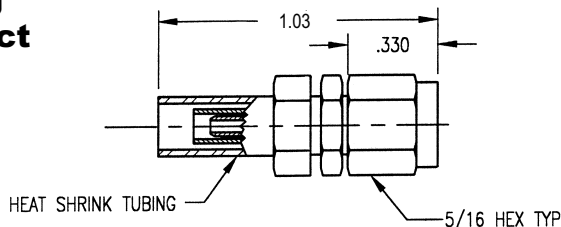


Part Number	Cable
352-900-0630H	RG-316
352-900-0631H	RG-316 double shielded
352-900-1160H	RG-303, 141
352-900-1161H	RG-142, 400

- See page 109 for cable assembly procedures: 9-05
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMA Brass: Crimp/Clamp Flexible Cable

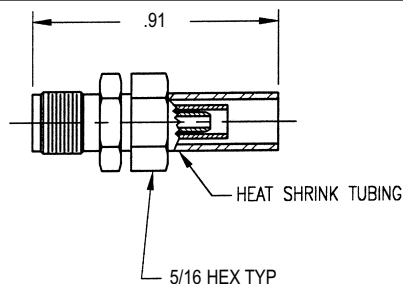
Straight Plug Captive Contact



Part Number	Cable
350-800-0360H	RG-178
350-800-0630H	RG-316
350-800-0631H	RG-316 double shielded
350-800-1160H	RG-303, 141
350-800-1161H	RG-142, 400

- See page 103 for cable assembly procedures: 8-01
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

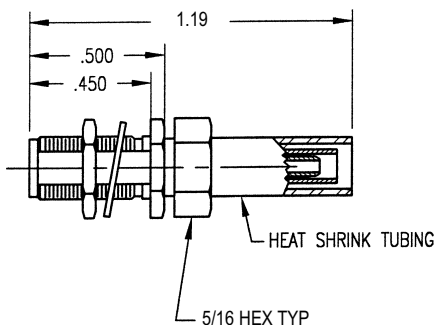
Straight Jack Captive Contact



Part Number	Cable
351-800-0360H	RG-178
351-800-0630H	RG-316
351-800-0631H	RG-316 double shielded
351-800-1160H	RG-303, 141
351-800-1161H	RG-142, 400

- See page 103 for cable assembly procedures: 8-01
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Jack Bulkhead Mount Captive Contact

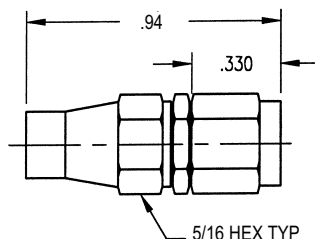


Part Number	Cable	Mounting Hole
351-875-0360H	RG-178	No. 075
351-875-0630H	RG-316	No. 075
351-875-0631H	RG-316 double shielded	No. 075
351-875-1160H	RG-303, 141	No. 075
351-875-1161H	RG-142, 400	No. 075

- See page 103 for cable assembly procedures: 8-01
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMA Brass: Clamp, Flexible Cable

Straight Plug Captive Contact



Part Number	Cable
350-700-0360H	RG-178
350-700-0630H	RG-316
350-700-0631H	RG-316 double shielded
350-700-1070H	RG-180
350-700-1161H	RG-142, 400

- See page 97 for cable assembly procedures: 7-01
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

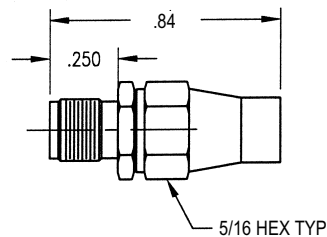
Note: Dimensions shown in inches.

Winchester/Retconn

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SMA Brass: Clamp, Flexible Cable

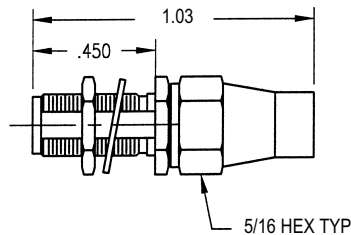
Straight Jack Captive Contact



Part Number	Cable
351-700-0360H	RG-178
351-700-0630H	RG-316
351-700-0631H	RG-316 double shielded
351-700-1070H	RG-180
351-700-1161H	RG-142, 400

- See page 97 for cable assembly procedures: 7-01
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

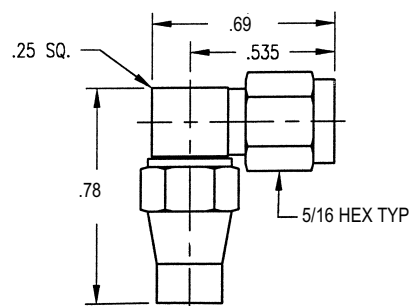
Straight Jack Bulkhead Mount Captive Contact



Part Number	Cable	Mounting Hole
351-775-0360H	RG-178	No. 075
351-775-0630H	RG-316	No. 075
351-775-0631H	RG-316 double shielded	No. 075
351-775-1070H	RG-180	No. 075
351-775-1161H	RG-142, 400	No. 075

- See page 97 for cable assembly procedures: 7-01
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

12.4 GHz Right Angle Plug

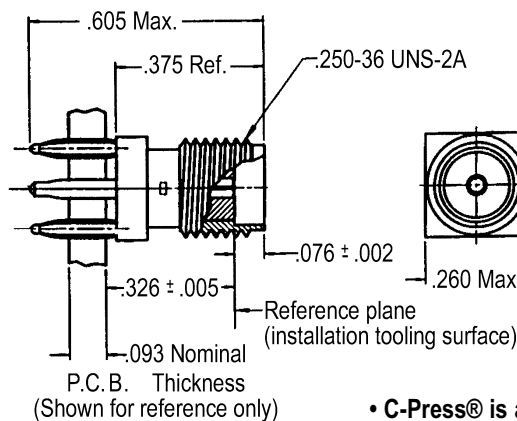
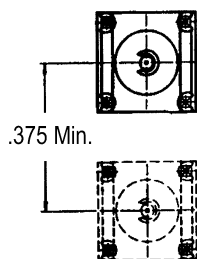


Part Number	Cable
352-700-0360H	RG-178
352-700-0630H	RG-316
352-700-0631H	RG-316 double shielded
350-700-1070H	RG-180
350-700-1161H	RG-142, 400

- See page 98 for cable assembly procedures: 7-02
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMA Brass: 50 Ohm C-Press® Press-fit Connector

Straight Jack



Part Number
121-29262-1

- See page 84 for mounting hole layout.
- Part number shown is for gold plated.

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

Note: Dimensions shown in inches.

SMA Brass: Receptacle, Solder Pot

Straight Plug Flange Mount

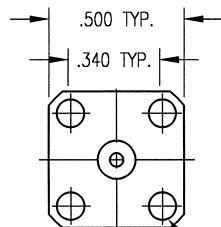


Figure 1

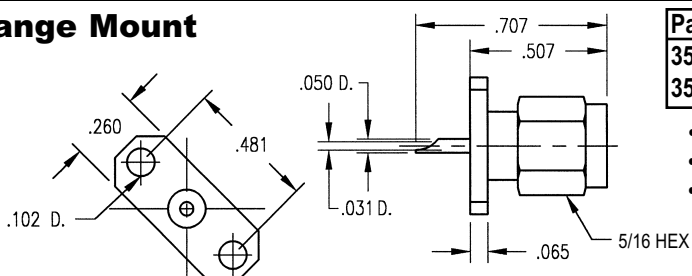


Figure 2

Part Number	Mounting Hole	Figure
350-065-0000H	No. 065	1
350-066-0000H	No. 066	2

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Jack Flange Mount

Figure 1

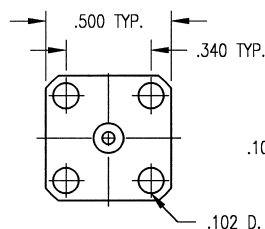
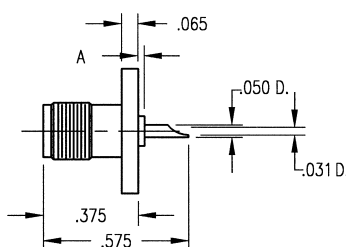
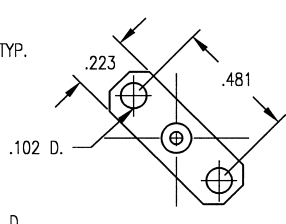


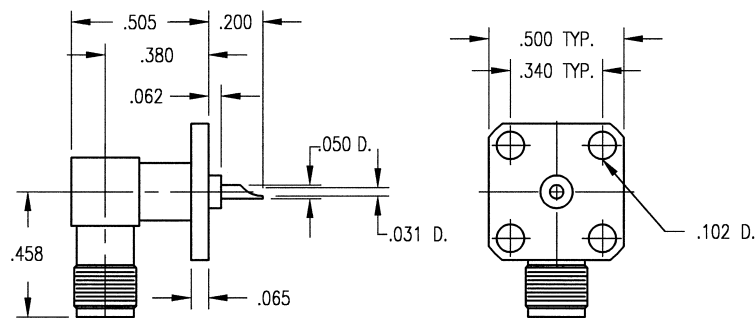
Figure 2



Part Number	Mounting Hole	A	Figure
351-065-0000H	No. 065	.000	1
351-066-0000H	No. 066	.000	2
351-065-0001H	No. 065	.025	1
351-066-0001H	No. 066	.025	2

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

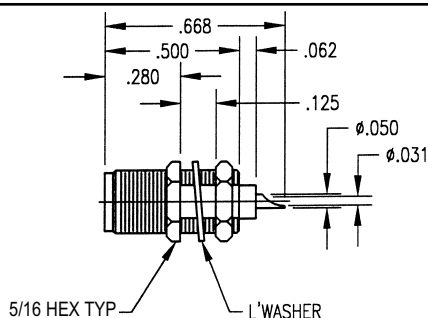
Right Angle Jack Flange Mount



Part Number	Mounting Hole
353-065-0000H	No. 065

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

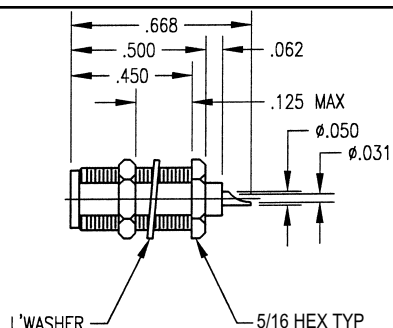
Straight Bulkhead Jack Front Mount



Part Number	Mounting Hole
351-075-0002H	No. 075

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Bulkhead Jack, Rear Mount



Part Number	Mounting Hole
351-075-0001H	No. 075

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.

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SMA Brass: Receptacle

Straight Plug Flange Mount Straight Contact

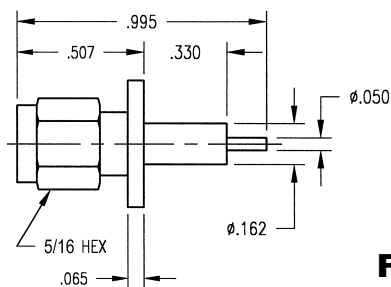


Figure 1

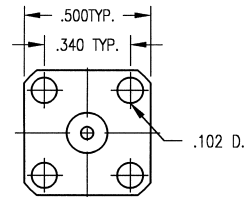
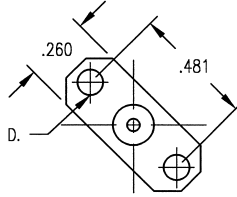


Figure 2



Part Number	Mounting Hole	Contact	Figure
350-065-0040H	No. 065	captivated	1
350-066-0040H	No. 066	captivated	2
350-055-0040H	No. 055	captivated	3
350-065-0041H	No. 065	non-captivated	1
350-066-0041H	No. 066	non-captivated	2
350-055-0041H	No. 055	non-captivated	3

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

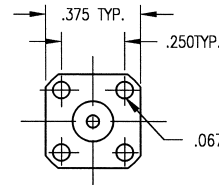


Figure 3

Straight Jack Flange Mount Straight Contact

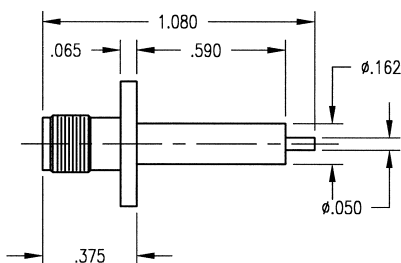


Figure 1

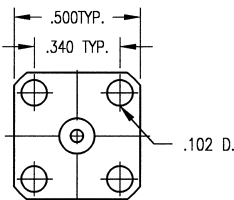
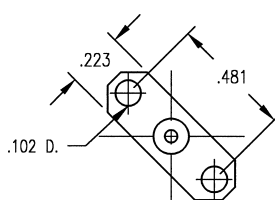


Figure 2



Part Number	Mounting Hole	Contact	Figure
351-065-0040H	No. 065	captivated	1
351-066-0040H	No. 066	captivated	2
351-055-0040H	No. 055	captivated	3
351-065-0041H	No. 065	non-captivated	1
351-066-0041H	No. 066	non-captivated	2
351-055-0041H	No. 055	non-captivated	3

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

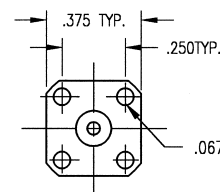
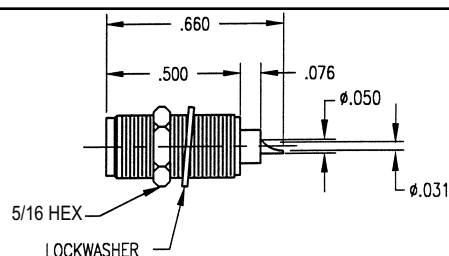


Figure 3

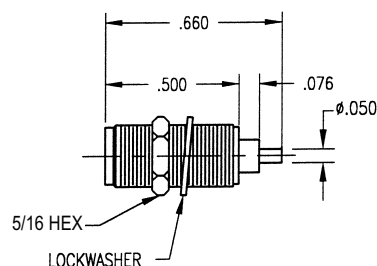
Straight Jack Feed - Thru Solder Pot



Part Number	Mounting Hole
351-074-0000H	No. 074

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Jack Feed - Thru Straight Terminal



Part Number	Mounting Hole
351-074-0040H	No. 074

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

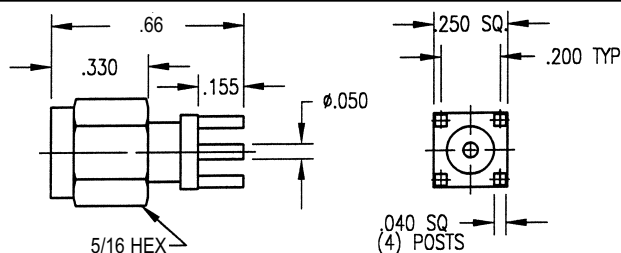
Note: Dimensions shown in inches.

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SMA Brass: Printed Circuit Receptacles

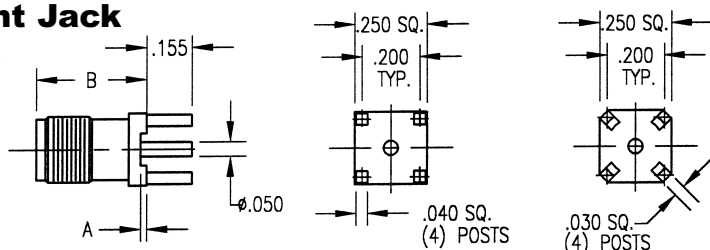
Straight Plug



Part Number	Mounting Hole
350-060-0040H	No. 060

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

Straight Jack



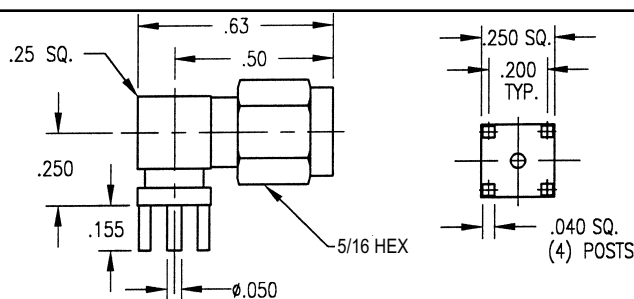
Part Number	Mounting Hole	Figure	A	B
351-060-0040H	No. 060	1	.000	.375
351-060-0046H	No. 060A	2	.020	.375

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

Figure 2

Figure 1

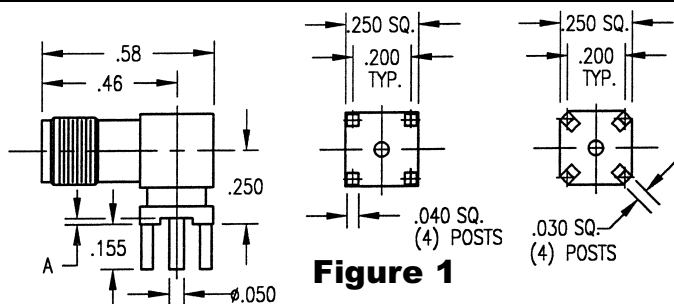
Right Angle Plug



Part Number	Mounting Hole
352-060-0040H	No. 060

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

Right Angle Jack



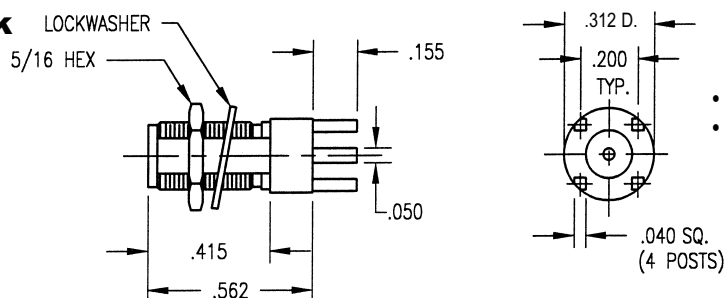
Part Number	Mounting Hole	Figure	A
353-060-0040H	No. 060	1	.000
353-060-0046H	No. 060A	2	.020

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

Figure 2

Figure 1

Straight Jack Bulkhead



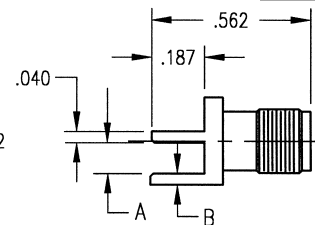
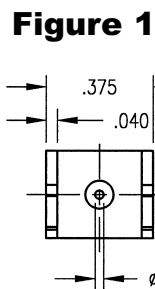
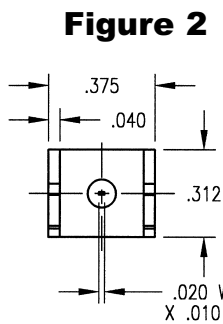
Part Number	Mounting Hole
351-060-7540H	No. 060, No. 075

- See pages 83 for mounting hole layout.
- Part number shown is for gold plated.

Note: Dimensions shown in inches.

SMA Brass: Printed Circuit Receptacles

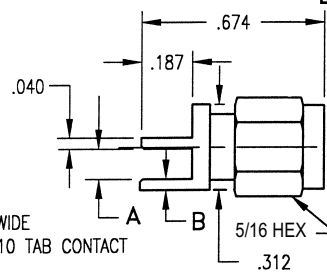
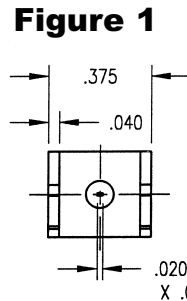
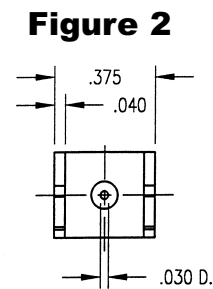
Straight Jack End Launch



Part Number	Contact	Figure	A	B
351-085-0030H	tab	1	.068	.083
351-085-0040H	round	2	.068	.073

• Part number shown is for gold plated.

Straight Plug End Launch



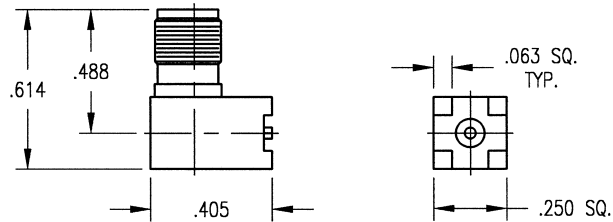
Part Number	Contact	Figure	A	B
350-085-0030H	tab	1	.068	.083
350-085-0040H	round	2	.068	.073

• Part number shown is for gold plated.

Note: Dimensions shown in inches.

SMA: Surface Mount Receptacles

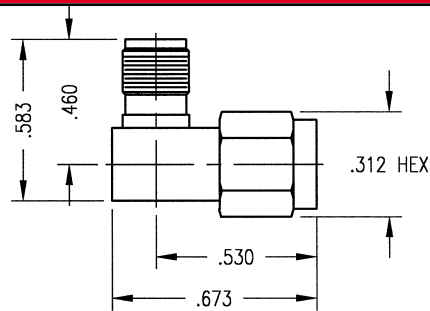
Right Angle Surface Mount Jack Receptacle



Part Number
253-077-0040H

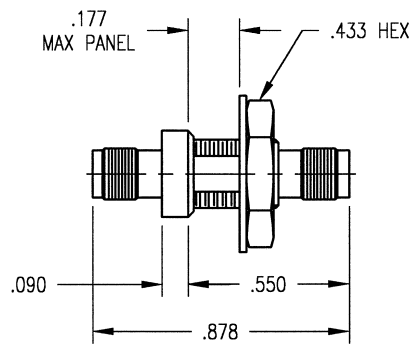
SMA: In-Series Adapters

Right Angle Plug - Jack



Part Number
252-253-0000H

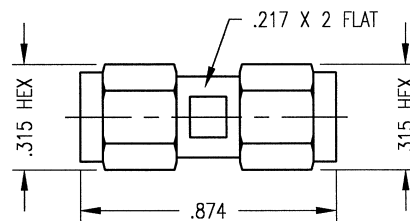
Bulkhead Jack - Jack



Part Number
251-251-7800H

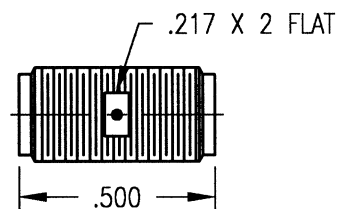
SMA: In-Series Adapters

Plug - Plug



Part Number
250-250-0000H

Jack - Jack



Part Number
251-251-0000H

Note: Dimensions shown in inches.

Winchester/Retconn

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SMB: Specifications & Interface Dimensions

MATERIALS:

Body, Body Components: Brass per ASTM B16 1/2 HD
 Female Contacts: Beryllium Copper per ASTM B196
 Male Contacts: Brass per ASTM B16 1/2 HD
 Insulators: Teflon per ASTM D1710
 Crimp Ferrule: Annealed Copper Alloy per ASTM B103
 Lockwashers: Phosphor Bronze per QQ-B-750

Finish:

Center Contact: Gold Plated per MIL-G-45204
 Other Metal Parts: Gold or Nickel Plated to Meet the Finish
 and Corrosion Requirements of MIL-C-39012

MATING CHARACTERISTICS:

Engagement Forces:

Initial 14 lbs. Maximum Engagement, After 500 Matings 14 lb.
 Maximum Engagement and Disengagement, 2 lbs. Minimum
 Disengagement

ELECTRICAL:

Impedance: 50 Ohms Nominal

Frequency Range: 0 to 4.0 GHz

Voltage Rating (VRMS) Sea Level 70K Feet

Connectors For RG -196	250	60
Connectors For RG -316	335	85

Insulation Resistance: 1000 Megaohms Minimum

Contact Resistance: (Milliohms Maximum)

	Initial	After Environment
Center Contact	6.0	8.0
Outer Contact	1.0	1.5
Braid To Body	1.0	N/A

ELECTRICAL (CONTINUED)

Voltage Standing Wave Ratio:

	Straight	Right Angle
RG-196 Braided	1.30+ .04F	1.45+ .06F
RG-316 Braided	1.25+ .04F	1.35+ .04F

Dielectric Withstanding Voltage (DWV):

VRMS @ Sea Level

Connectors For RG-196 750

Connectors For RG-316 1000

Corona Level: Volts @ 70K Feet

Connectors For RG-196 250 Minimum

Connectors For RG-316 350 Minimum

RF High Potential Withstanding Voltage

Frequency: 5 MHz

Leakage Current: N/A

Connectors For RG-196 500 VRMS

Connectors For RG-316 700 VRMS

R.F. Leakage: -60dB Minimum @ 2-3 GHz

Insertion Loss: .25 dB Maximum @ 4 GHz

ENVIRONMENTAL:

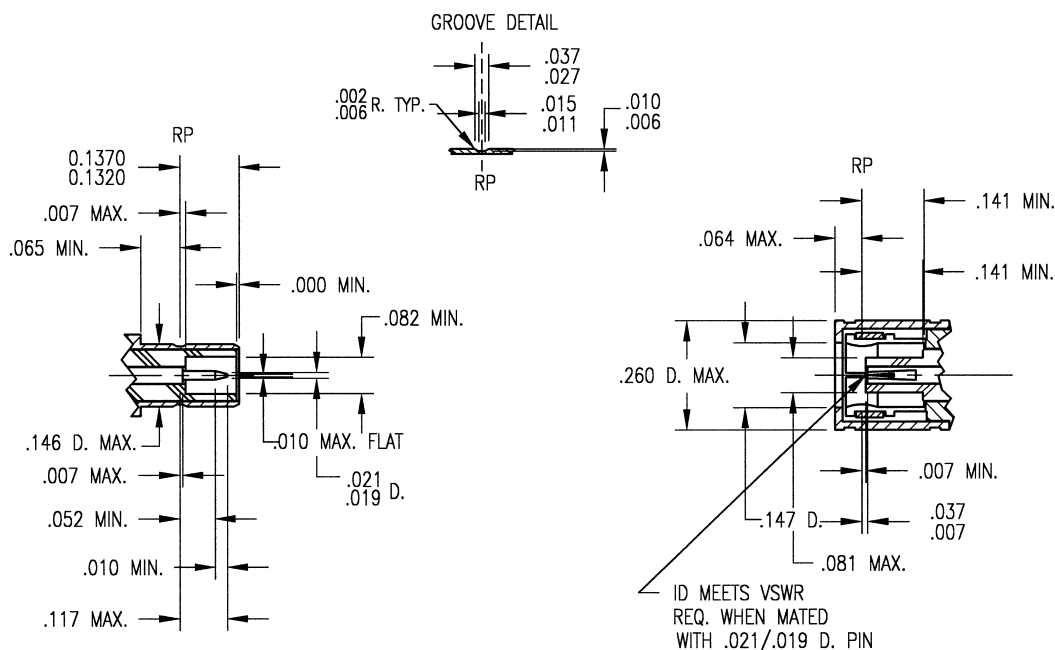
Temperature Rating: -65°C to +165°C

Corrosion (Salt Spray): MIL-STD-202, Method 101, Condition B

Vibration, High Frequency: MIL-STD-204, Method 204,
 Condition B

Shock: MIL-STD-202, Method 213, Test Condition B

Temperature Cycling: MIL-STD-202, Method 102,
 Test Condition C

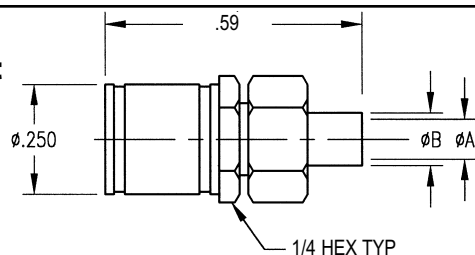


Note: Dimensions shown in inches.

Winchester/Retconn

SMB: Solder/Clamp, Semi-rigid Cable

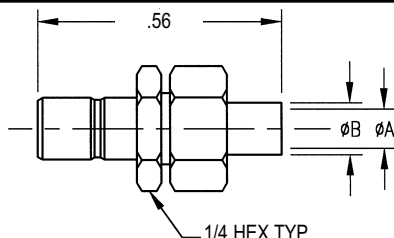
Straight Plug Captive Contact



Part Number	Cable	A	B
510-600-0850H	.085 SR	.089	.120
510-600-1410H	.141 SR	.144	.180

- See page 95 for cable assembly procedures: No. 6-01
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

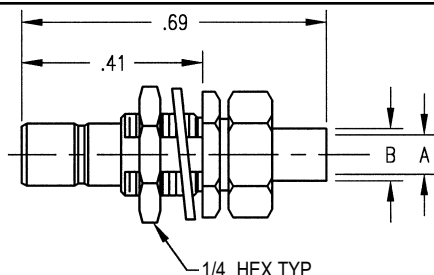
Straight Jack Captive Contact



Part Number	Cable	A	B
511-600-0850H	.085 SR	.089	.120
511-600-1410H	.141 SR	.144	.180

- See page 95 for cable assembly procedures: No. 6-01
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

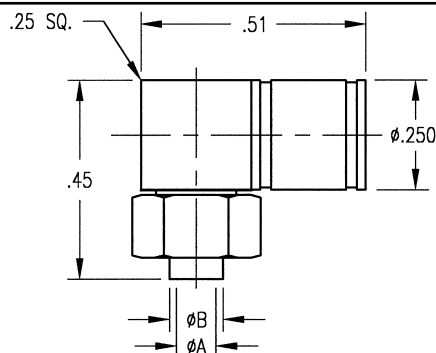
Straight Bulkhead Jack Captive Contact



Part Number	Cable	Mounting Hole	A	B
510-680-0850H	.085 SR	No. 080	.089	.120
510-680-1410H	.141 SR	No. 080	.144	.180

- See page 95 for cable assembly procedures: No. 6-01
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Right Angle Plug

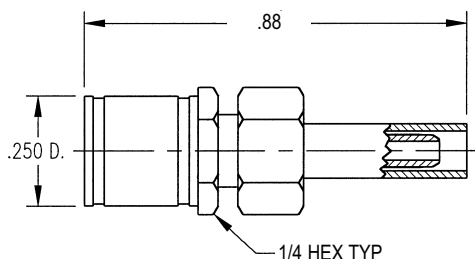


Part Number	Cable	A	B
512-600-0850H	.085 SR	.089	.120
512-600-1410H	.141 SR	.144	.180

- See page 96 for cable assembly procedures: No. 6-02
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMB: Crimp / Clamp Flexible Cable

Straight Plug Captive Contact



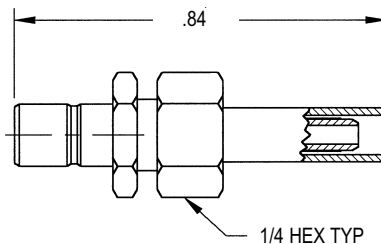
Part Number	Cable
510-800-0360H	RG-178
510-800-0630H	RG-316
510-800-0631H	RG-316 double shielded

- See page 104 for cable assembly procedures: No. 8-02
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.

SMB: Crimp / Clamp Flexible Cable

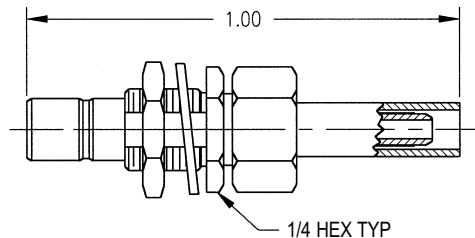
Straight Jack Captive Contact



Part Number	Cable
511-800-0360H	RG-178
511-800-0630H	RG-316
511-800-0631H	RG-316 double shielded

- See page 104 for cable assembly procedures: No. 8-02
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

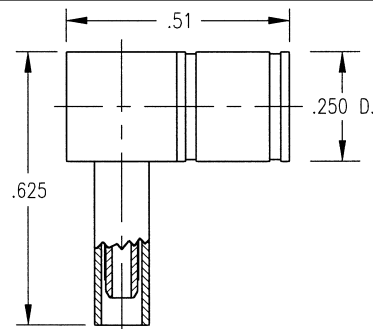
Straight Bulkhead Jack Captive Contact



Part Number	Cable	Mounting Hole
511-880-0360H	RG-178	No. .080
511-880-0630H	RG-316	No. .080
511-880-0631H	RG-316 double shielded	No. .080

- See page 104 for cable assembly procedures: No. 8-02
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Right Angle Plug

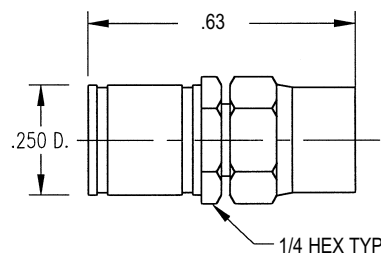


Part Number	Cable
512-900-0360H	RG-178
512-900-0630H	RG-316
512-900-0631H	RG-316 double shielded

- See page 110 for cable assembly procedures: No. 9-06
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMB: Clamp Flexible Cable

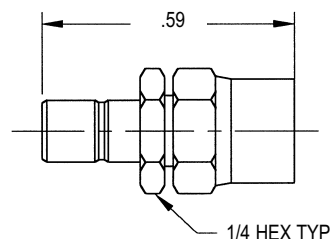
Straight Plug Captive Contact



Part Number	Cable
510-700-0360H	RG-178
510-700-0630H	RG-316
510-700-0631H	RG-316 double shielded

- See page 99 for cable assembly procedures: No. 7-03
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Jack Captive Contact



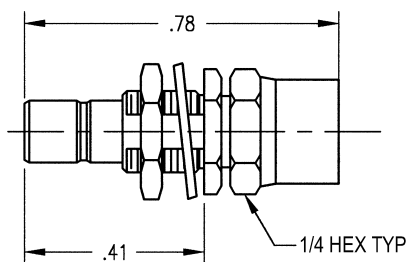
Part Number	Cable
511-700-0360H	RG-178
511-700-0630H	RG-316
511-700-0631H	RG-316 double shielded

- See page 99 for cable assembly procedures: No. 7-03
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.

SMB: Clamp Flexible Cable

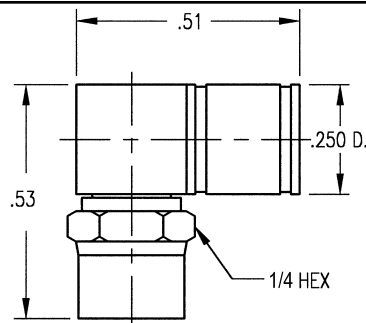
Straight Bulkhead Jack Captive Contact



Part Number	Cable	Mounting Hole
511-780-0360H	RG-178	No. 080
511-780-0630H	RG-316	No. 080
511-780-0631H	RG-316 double shielded	No. 080

- See page 99 for cable assembly procedures: No. 7-03
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Right Angle Plug

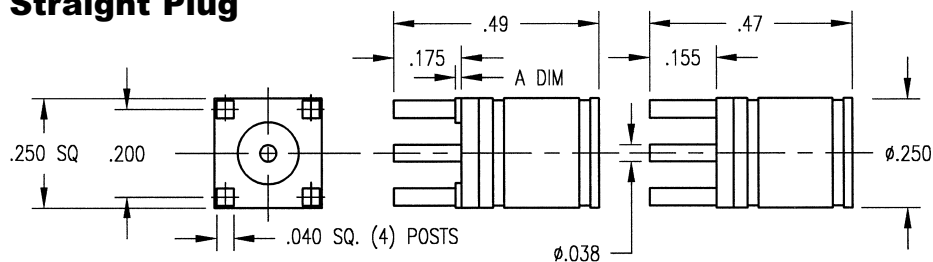


Part Number	Cable
512-700-0360H	RG-178
512-700-0630H	RG-316
512-700-0631H	RG-316 double shielded

- See page 100 for cable assembly procedures: No. 7-04
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMB: Printed Circuit Receptacles

Straight Plug



Part Number	Mounting Hole	A
510-060-0040H	No. 060 B	-
510-060-0047H	No. 060 B	.020

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Jack

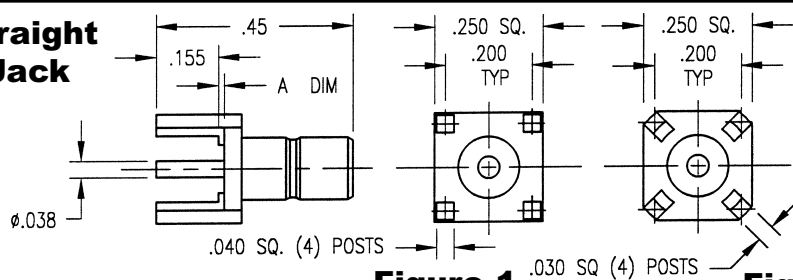


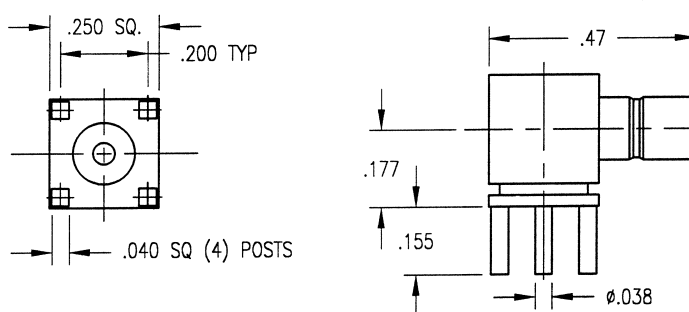
Figure 1

Figure 2

Part Number	Mounting Hole	A	Figure
511-060-0040H	No. 060 B	-	1
511-060-0047H	No. 060 A	-	2
511-060-0048H	No. 060 A	.020	2

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Right Angle Jack



Part Number	Mounting Hole
513-060-0040H	No. 060 B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

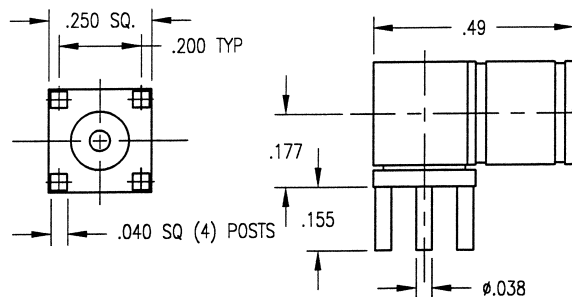
Note: Dimensions shown in inches.

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SMB: Printed Circuit Receptacles

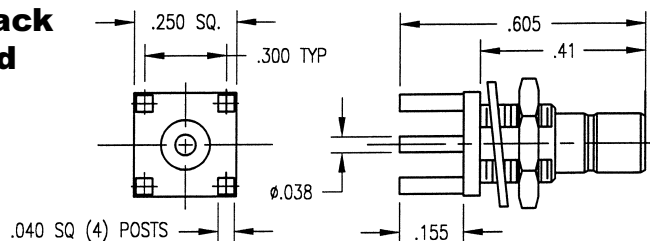
Right Angle Plug



Part Number	Mounting Hole
512-060-0040H	No. 060 B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

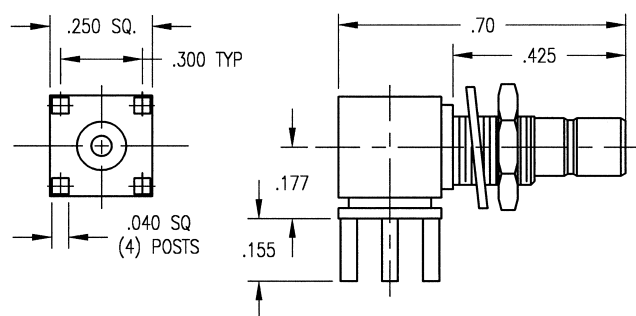
Straight Jack Bulkhead Mount



Part Number	Mounting Hole
511-080-6040H	No. 060B, No. 080

- See pages 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Right Angle Jack Bulkhead Mount

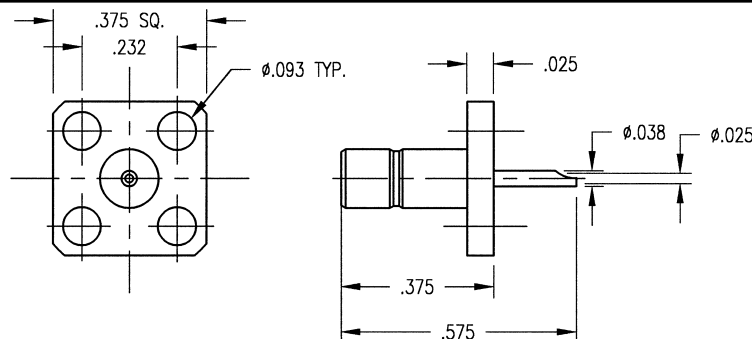


Part Number	Mounting Hole
513-060-0080H	No. 060B, No. 080

- See pages 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMB: Panel Receptacles

Straight Jack Panel Mount (4) Hole

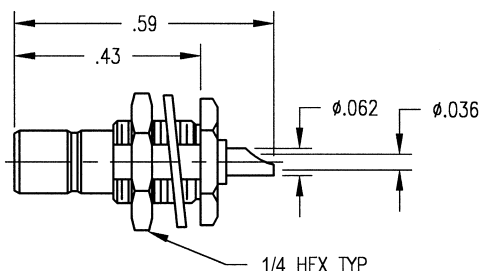


Part Number	Mounting Hole
511-071-0000H	No. 071

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMB: Bulkhead Receptacles

Straight Jack Rear Mount D Hole



Part Number	Mounting Hole
511-080-0000H	No. 080

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

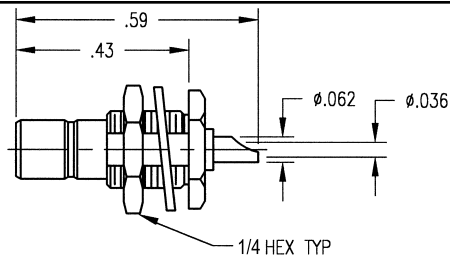
Note: Dimensions shown in inches.

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SMB: Bulkhead Receptacles

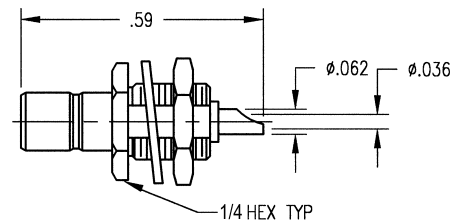
Straight Jack Front Mount D Hole



Part Number	Mounting Hole
511-080-0001H	No. 080

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

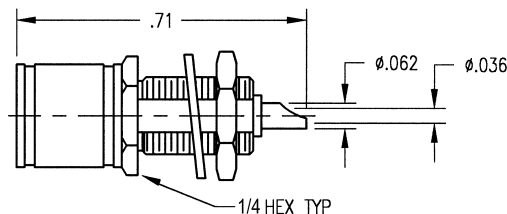
Straight Jack Rear Mount Key Hole



Part Number	Mounting Hole
511-082-0000H	No. 082

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Plug Front Mount D Hole

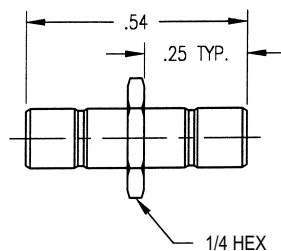


Part Number	Mounting Hole
510-080-0000H	No. 080

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMB: In-Series Adapters

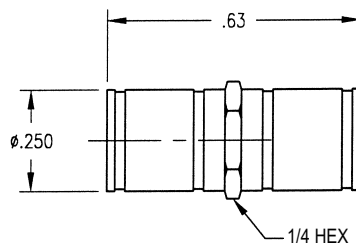
Jack / Jack



Part Number
511-511-0000H

- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

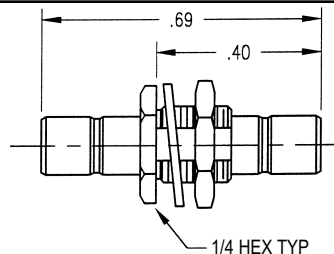
Plug / Plug



Part Number
510-510-0000H

- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Jack / Bulkhead Jack



Part Number	Mounting Hole
511-511-8000H	No. 060 B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

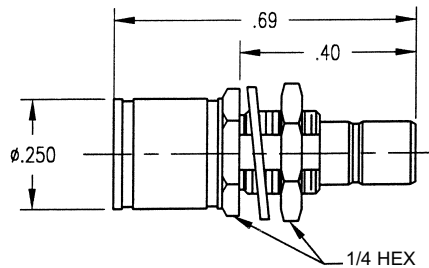
Note: Dimensions shown in inches.

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SMB: In-Series Adapters

Plug / Bulkhead Jack

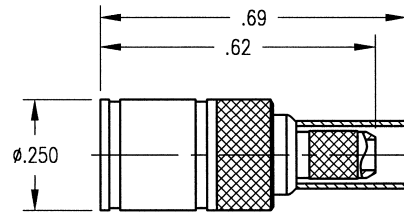


Part Number	Mounting Hole
510-511-8000H	No. 060 B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMB: Flexible Cable-Short Crimp Attachment

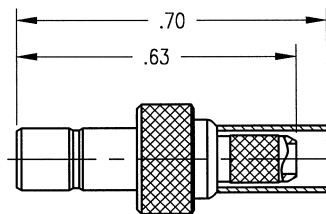
Straight Plug Crimp / Crimp



Part Number	Cable
510-900-0360H	RG-178
510-900-0630H	RG-316
510-900-0630H	RG-316 double shielded

- Refer to page 111 for cable assembly procedures: 9-08
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

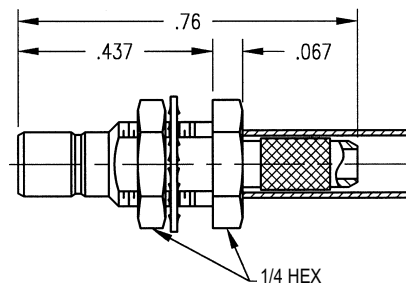
Straight Jack Crimp / Crimp



Part Number	Cable
511-900-0360H	RG-178
511-900-0630H	RG-316
511-900-0631H	RG-316 double shielded

- Refer to page 111 for cable assembly procedures: 9-08
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Bulkhead Jack Crimp / Crimp

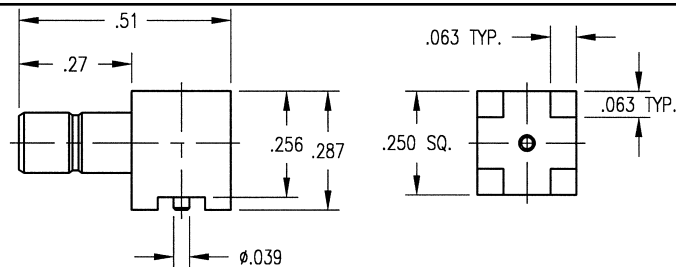


Part Number	Cable	Mounting Hole
511-980-0360H	RG-178	No. 080
511-980-0630H	RG-316	No. 080
511-980-0631H	RG- 316 double shielded	No. 080

- Refer to page 111 for cable assembly procedures: 9-08
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

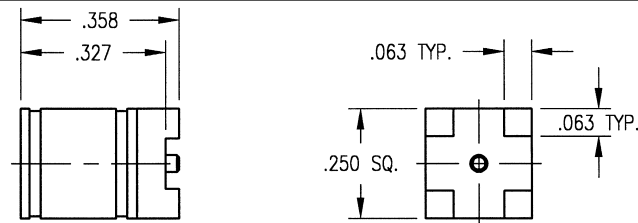
SMB: Surface Mount Receptacles

Right Angle Surface Mount Jack



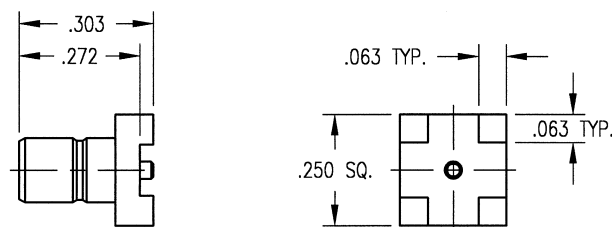
Part Number
513-077-0040H

Straight Surface Mount Plug



Part Number
511-077-0040H

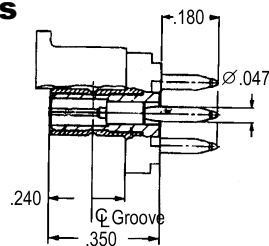
Straight Surface Mount Jack



Part Number
511-077-0040H

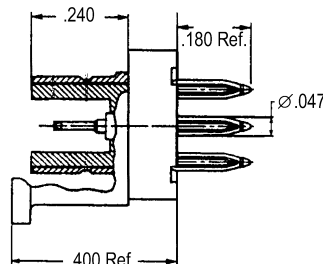
SMB Brass: 50 & Standard 75 Ohm C-Press® Press-fit

Snap-on Connectors



50 Ohm

75 Ohm



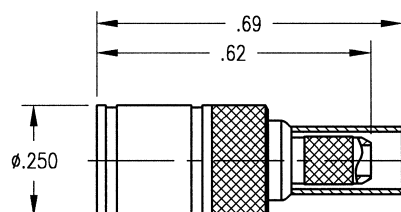
Part Number
50 Ohm: 121-10302-1 with CAP
121-10302-2 without CAP
75 Ohm: 121-14165-1 with CAP
121-14165-2 without CAP

• See page 84 for mounting hole layout.

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

SMB MINI 75 Ohm: Crimp Flexible Cable

Straight Plug Crimp / Crimp



Part Number	Cable
570-900-0630H	RG-179
570-900-0631H	RG-179 double shielded

- See page 111 for cable assembly procedures: 9-08
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

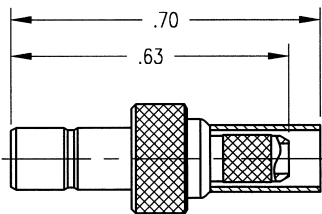
Note: Dimensions shown in inches.

Winchester/Retconn

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SMB MINI 75 Ohm: Crimp Flexible Cable

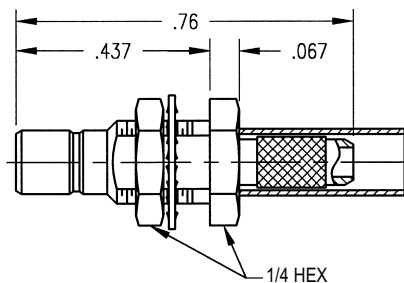
Straight Plug Crimp / Crimp



Part Number	Cable
571-900-0630H	RG-179
571-900-0631H	RG-179 double shielded

- See page 111 for cable assembly procedures: 9-08
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

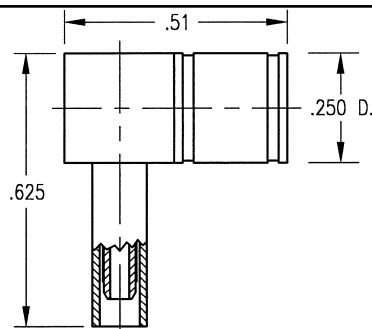
Straight Bulkhead Jack Crimp / Crimp



Part Number	Cable	Mounting Hole
571-980-0630H	RG-179	No. 080
571-980-0631H	RG-179 double shielded	No. 080

- See page 83 for mounting hole layout.
- See page 111 for cable assembly procedures: 9-08
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Right Angle Plug

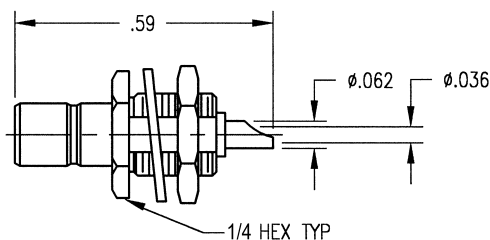


Part Number	Cable
572-900-0630H	RG-179
572-900-0631H	RG-179 double shielded

- See page 110 for cable assembly procedures: 9-06
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMB MINI 75 Ohm: Bulkhead & PCB Mount Receptacles

Straight Jack Front Mount D Hole

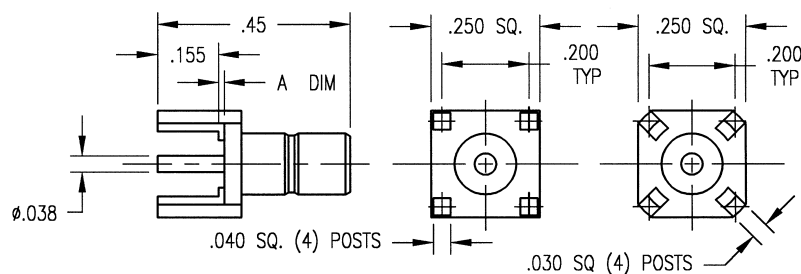


Part Number	Mounting Hole
571-080-0000H	No. 080

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Jack

Figure 1



Part Number	Mounting Hole	A Dim	Figure
571-060-0040H	No. 060 B	-	1
571-060-0047H	No. 060 A	-	2
571-060-0048H	No. 060 A	.020	2

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Figure 2

Note: Dimensions shown in inches.

SMC: Specifications & Interface Dimensions

MATERIALS:

Body, Body Components: Brass per ASTM B16 1/2 HD
 Female Contacts: Beryllium Copper per ASTM B196
 Male Contacts: Brass per ASTM B16 1/2 HD
 Insulators: Teflon per ASTM D1710
 Crimp Ferrule: Annealed Copper Alloy per ASTM B103
 Lockwashers: Phosphor Bronze per QQ-B-750

Finish:

Center Contact: Gold Plated per MIL-G-45204
 Other Metal Parts: Gold or Nickel Plated to Meet the
 Finish and Corrosion Requirements of MIL-C-39012

MATING CHARACTERISTICS

Engagement Forces: Torque: 16 inch - lbs. Maximum
 Mating Torque: 60 to 70 inch - lbs.
 Coupling Proof Torque: 100 inch - lbs. Minimum

ELECTRICAL

Impedance: 50 Ohms

Frequency Range: 0 to 10.0 GHz

Voltage Rating (VRMS): Sea Level 70K Ft

Connectors For RG-196/U 250 60

Connectors For RG-316/U 335 85

Insulation Resistance: 1000 Megohms Minimum

Contact Resistance: (milliohms Maximum)

	<u>Initial</u>	<u>After Environment</u>
Center Contact	6.0	8.0
Outer Contact	1.0	N/A
Braid to Body	1.0	N/A

ELECTRICAL (Continued)

Voltage Standing Wave Ratio:

	<u>Straight</u>	<u>Right Angle</u>
RG-196/U Braided	1.25+ .04F	1.40+ .06F
RG-316/U Braided	1.20+ .04F	1.30+ .04F

Dielectric Withstanding Voltage (DWV):

VRMS @ Sea Level

Connectors For RG-196/U 185 Minimum

Connectors For RG-316/U 250 Minimum

RF High Potential Withstanding Voltage:

Frequency: 5 MHz

Leakage Current: N/A

Connectors For RG-196/U 500 VRMS

Connectors For RG-316/U 700 VRMS

R.F. Leakage: -60 dB Minimum @ 2 - 3 GHz

Insertion Loss: .25 dB Maximum @ 4 GHz

ENVIRONMENTAL

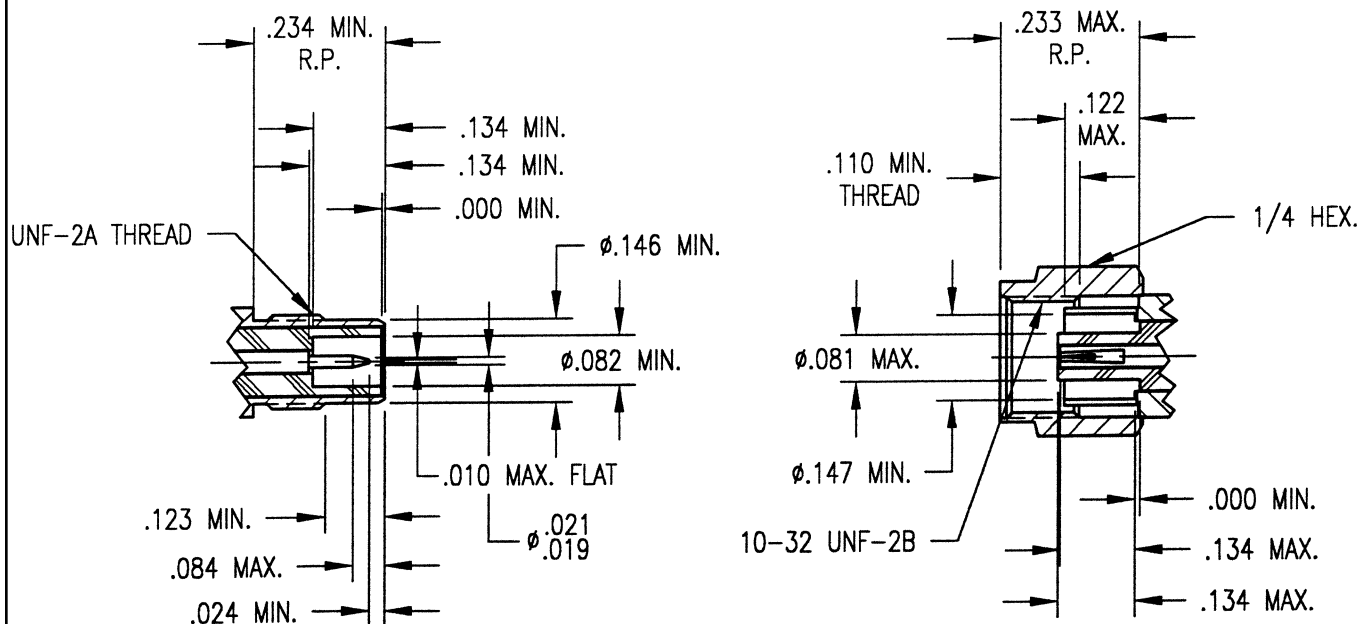
Temperature Rating: -65°C to +165°C

Corrosion (Salt Spray): MIL-STD-202, Method 101, Condition B
 5% Salt Solution

Vibration, High Frequency: MIL-STD-202, Method 204, Condition D

Shock: MIL-STD-202, Method 213, Test Condition C

Temperature Cycling: MIL-STD-202, Method 107, Test Condition B



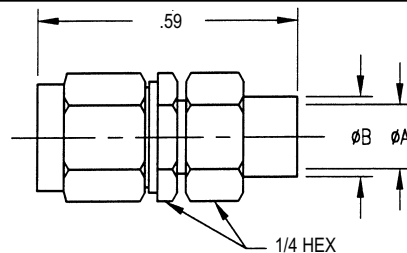
Note: Dimensions shown in inches.

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SMC: Solder/Clamp, Semi-rigid Cable

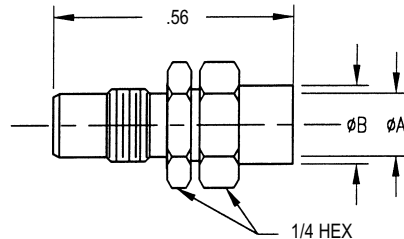
Straight Plug Captive Contact



Part Number	Cable	A	B
500-600-0850H	.085 SR	.089	.120
500-600-1410H	.141 SR	.144	.180

- See page 95 for cable assembly procedures: No. 6-01
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

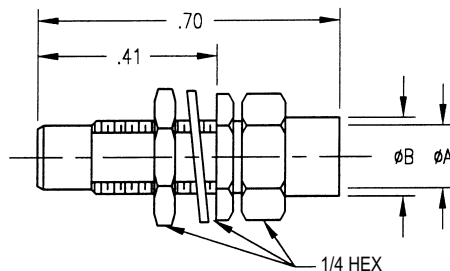
Straight Jack Captive Contact



Part Number	Cable	A	B
501-600-0850H	.085 SR	.089	.120
501-600-1410H	.141 SR	.144	.180

- See page 95 for cable assembly procedures: No. 6-01
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

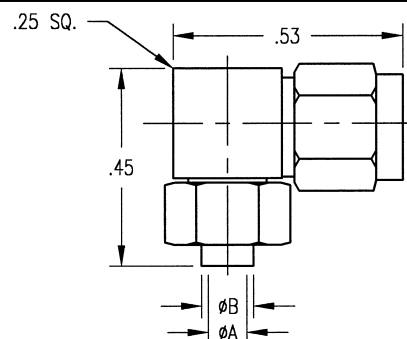
Straight Bulkhead Jack Captive Contact



Part Number	Cable	A	B	Mounting Hole
500-680-0850H	.085 SR	.089	.120	No. 080
500-680-1410H	.141 SR	.144	.180	No. 080

- See page 95 for cable assembly procedures: No. 6-01
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Right Angle Plug

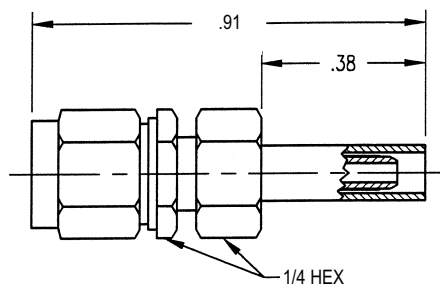


Part Number	Cable	A	B
502-600-0850H	.085 SR	.089	.120
502-600-1410H	.141 SR	.144	.180

- See page 96 for cable assembly procedures: No. 6-02
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMC: Crimp Flexible Cable

Straight Plug Captive Contact



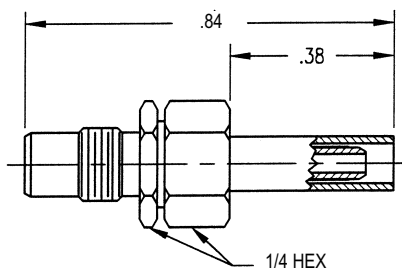
Part Number	Cable
500-800-0360H	RG-178
500-800-0630H	RG-316
500-800-0631H	RG-316 double shielded

- See page 104 for cable assembly procedures: No. 8-02
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.

SMC: Crimp / Clamp Flexible Cable

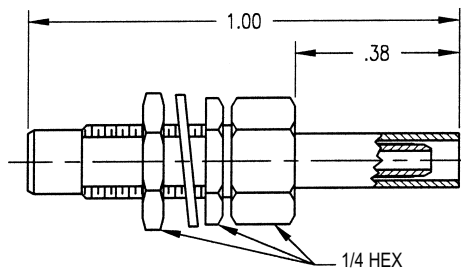
Straight Jack Captive Contact



Part Number	Cable
501-800-0360H	RG-178
501-800-0630H	RG-316
501-800-0631H	RG-316 double shielded

- See page 104 for cable assembly procedures: No. 8-02
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

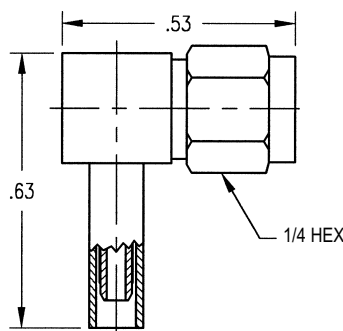
Straight Bulkhead Jack Captive Contact



Part Number	Cable	Mounting Hole
501-880-0360H	RG-178	No. 080
501-880-0630H	RG-316	No. 080
501-880-0631H	RG-316 double shielded	No. 080

- See page 104 for cable assembly procedures: No. 8-02
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Right Angle Plug

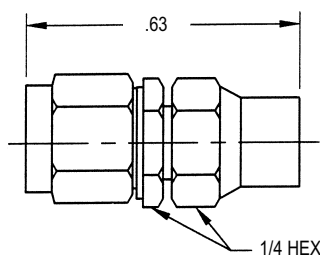


Part Number	Cable
502-900-0360H	RG-178
502-900-0630H	RG-316
502-900-0631H	RG-316 double shielded

- See page 110 for cable assembly procedures: No. 9-06
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMC: Clamp Flexible Cable

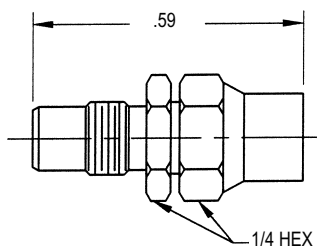
Straight Plug Captive Contact



Part Number	Cable
500-700-0360H	RG-178
500-700-0630H	RG-316
500-700-0631H	RG-316 double shielded

- See page 99 for cable assembly procedures: No. 7-03
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Jack Captive Contact



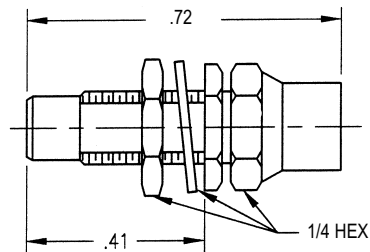
Part Number	Cable
501-700-0360H	RG-178
501-700-0630H	RG-316
501-700-0631H	RG-316 double shielded

- See page 99 for cable assembly procedures: No. 7-03
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.

SMC: Clamp Flexible Cable

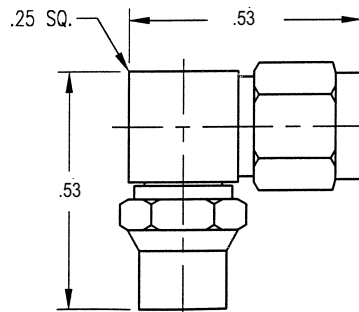
Straight Bulkhead Jack Captive Contact



Part Number	Cable	Mounting Hole
501-780-0360H	RG-178	No. 080
501-780-0630H	RG-316	No. 080
501-780-0631H	RG-316 double shielded	No. 080

- See page 99 for cable assembly procedures: No. 7-03
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Right Angle Plug

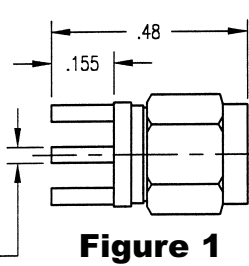
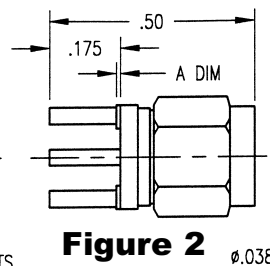
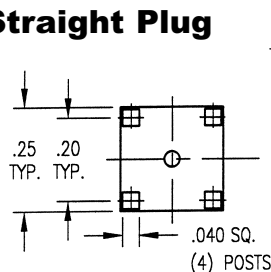


Part Number	Cable
502-700-0360H	RG-178
502-700-0630H	RG-316
502-700-0631H	RG-316 double shielded

- See page 100 for cable assembly procedures: No. 7-04
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMC: Printed Circuit Receptacles

Straight Plug



Part Number	Mounting Hole	"A" DIM	Figure
500-060-0040H	No. 060 B	.000	1
500-060-0047H	No. 060 B	.020	2

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Jack

Figure 1

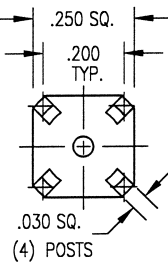
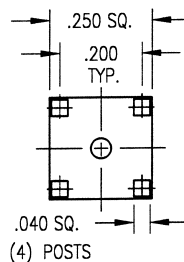
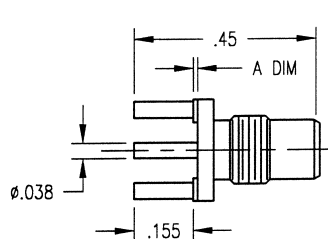
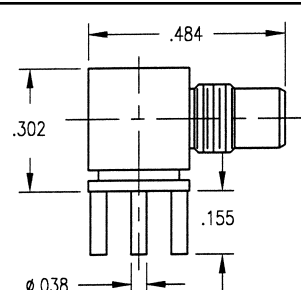
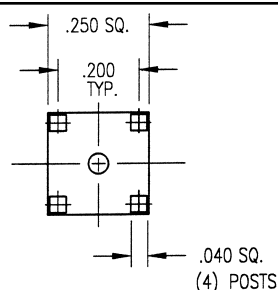


Figure 2

Part Number	Mounting Hole	"A" DIM	Figure
501-060-0040H	No. 060 B	.000	1
501-060-0047H	No. 060 A	.000	2
501-060-0048H	No. 060 A	.020	2

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Right Angle Jack



Part Number	Mounting Hole
503-060-0040H	No. 060 B

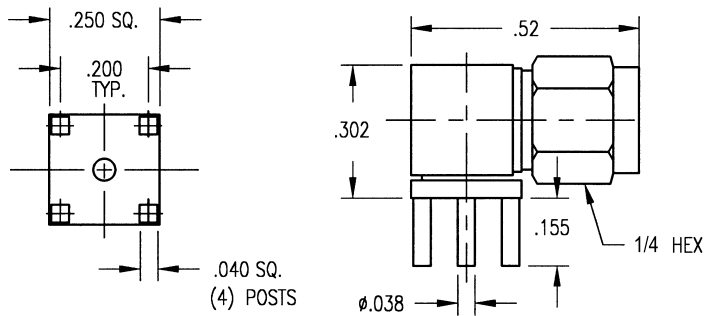
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.

Winchester/Retconn

SMC: Printed Circuit Receptacles

Right Angle Plug

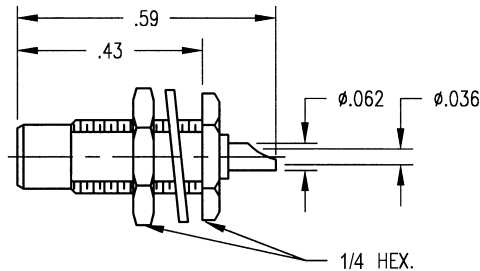


Part Number	Mounting Hole
502-060-0040H	No. 060 B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMC: Bulkhead Receptacles

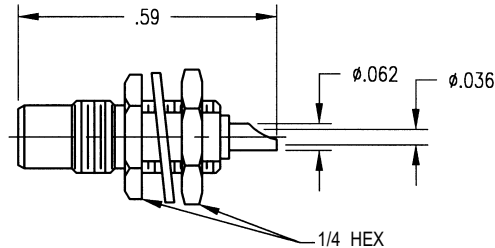
Straight Jack Rear Mount D Hole



Part Number	Mounting Hole
501-080-0000H	No. 080

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

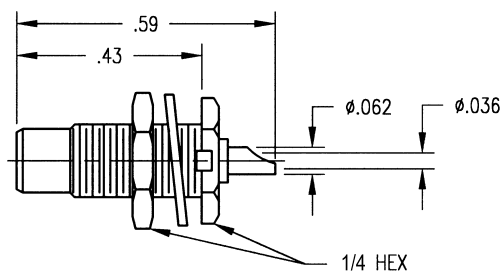
Straight Jack Front Mount D Hole



Part Number	Mounting Hole
501-080-0001H	No. 080

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

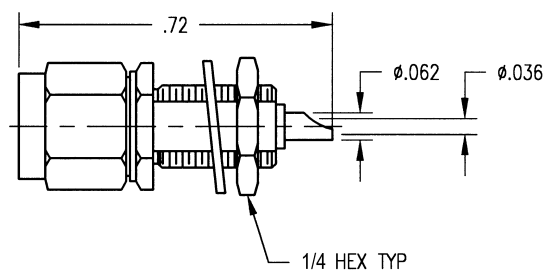
Straight Jack Rear Mount Key Hole



Part Number	Mounting Hole
501-082-0000H	No. 082

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Plug Front Mount D Hole



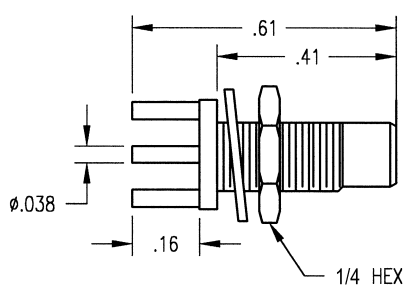
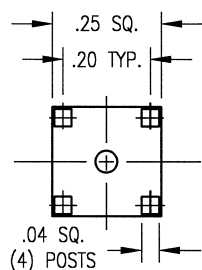
Part Number	Mounting Hole
500-080-0000H	No. 080

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.

SMC: Printed Circuit Receptacle

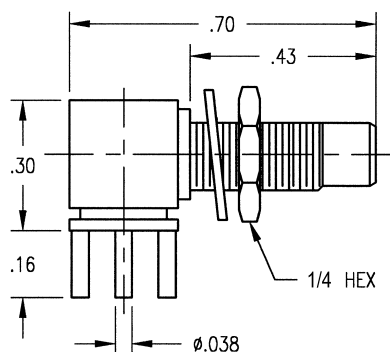
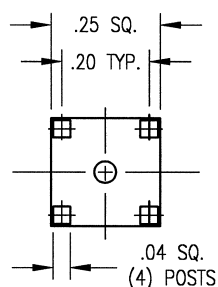
Straight Jack Bulkhead Mount



Part Number	Mounting Hole
501-060-0080H	No. 060B, No. 080

- See pages 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

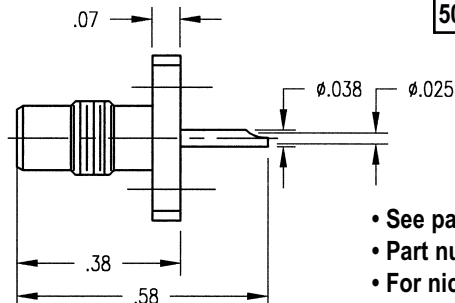
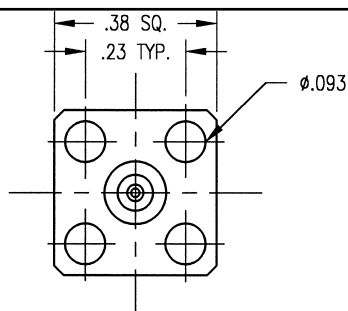
Right Angle Jack Bulkhead Mount



Part Number	Mounting Hole
503-060-0080H	No. 060B, No. 080

- See pages 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Jack Panel Mount 4 Hole

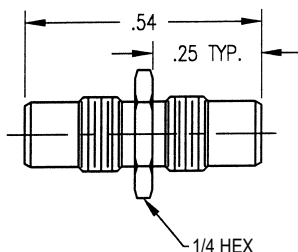


Part Number	Mounting Hole
501-071-0000H	No. 060B, No. 080

- See pages 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SMC: In-Series Adapters

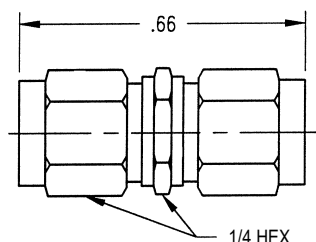
Jack / Jack



Part Number
501-501-0000H

- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Plug / Plug



Part Number
500-500-0000H

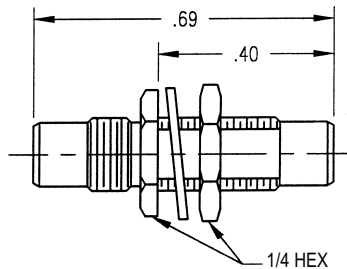
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.

Winchester/Retconn

SMC: In-Series Adapters

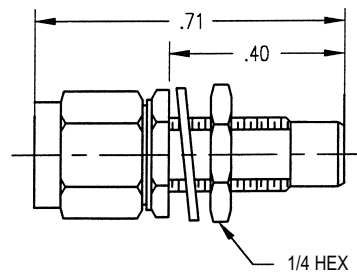
Jack / Bulkhead Jack



Part Number	Mounting Hole
501-501-8000H	No. 060 B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Plug / Bulkhead Jack



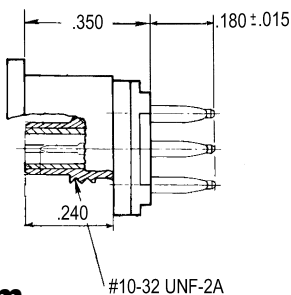
Part Number	Mounting Hole
500-501-8000H	No. 060 B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

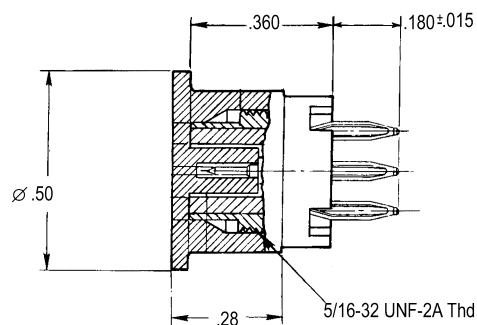
SMC Brass: 50 & 75 Ohm C-Press® Press-fit

Screw-on Connectors

50 Ohm



75 Ohm



Part Number
50 Ohm: 121-27341-1 without CAP
121-27341-2 with CAP
75 Ohm: 121-10349-1 with CAP
121-10349-2 without CAP

- See page 84 for mounting hole layout.
- Part number shown is for gold plated.

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

Note: Dimensions shown in inches.

SLIDE - ON: Specifications & Interface Dimensions

MATERIALS:

Body, Body Components: Brass per ASTM B16 1/2 HD
 Female Contacts: Beryllium Copper per ASTM B196
 Male Contacts: Brass per ASTM B16 1/2 HD
 Insulators: Teflon per ASTM D1710
 Crimp Ferrule: Annealed Copper Alloy
 Lockwashers: Phosphor Bronze per ASTM B103

Finish:

Center Contact: Gold Plated per MIL-G-45204
 Other Metal Parts: Gold or Nickel Plated to Meet the
 Finish and Corrosion Requirements of MIL-C-39012

MATING CHARACTERISTICS

Engagement Forces:

Initial 6 lbs. Maximum Engagement. After 500 Matings
 1 lb. Minimum Disengagement

ELECTRICAL

Impedance: 50 Ohms Nominal

Frequency Range: 0 to 4.0 GHz

Voltage Rating (VRMS): Sea Level 70K Ft

Connectors For RG-196/U	250	60
Connectors For RG-316/U	335	85

Insulation Resistance: 1000 Megohms Minimum

Contact resistance: (Milliohms Maximum)

	<u>Initial</u>	<u>After Environment</u>
Center Contact	6.0	8.0
Outer Contact	1.0	1.5
Braid to Body	1.0	N/A

Electrical Continued

Voltage Standing Wave Ratio:

	<u>Straight</u>	<u>Right Angle</u>
RG-196 Braided	1.30+ .04F	1.45+ .06F
RG-316 Braided	1.25+ .04F	1.35+ .04F

Dielectric Withstanding Voltage (DWV):

VRMS @ Sea Level

Connectors For RG-196	750
Connectors For RG-316	1000

Corona Level:

Volts @ 70K Ft

Connectors For RG-196	250 Minimum
Connectors For RG-316	350 Minimum

RF High Potential Withstanding Voltage

Frequency: 5 MHz

Leakage Current: N/A

Connectors For RH-196 500 VRMS

Connectors For RG-316 700 VRMS

R.F. Leakage: -60 dB Minimum @ 2 - 3 GHz

Insertion Loss: .25 dB Maximum @ 4 GHz

ENVIRONMENTAL

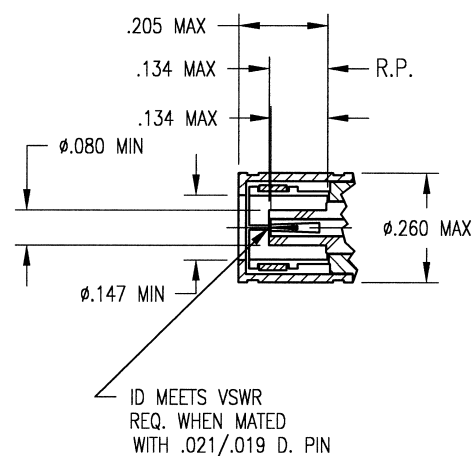
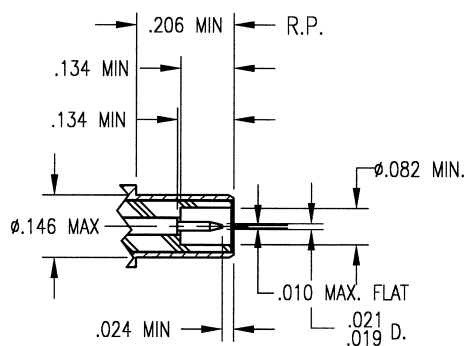
Temperature Rating: -65°C to +165°C

Corrosion (Salt Spray): MIL-STD-202, Method 101, Condition B.

Vibration, High Frequency: MIL-STD-204, Method 204, Condition B

Shock: MIL-STD-202, Method 213, Test Condition B.

Temperature Cycling: MIL-STD-202, Method 102, Test Condition C

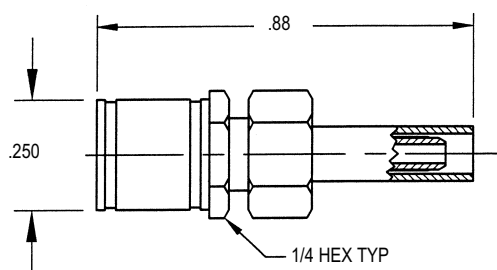


Note: Dimensions shown in inches.

Winchester/Retconn

SLIDE - ON: Crimp / Clamp Flexible Cable

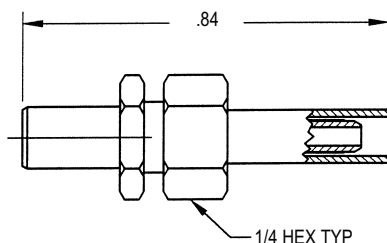
Straight Plug Captive Contact



Part Number	Cable
520-800-0360H	RG-178
520-800-0630H	RG-316
520-800-0631H	RG-316 double shielded

- See page 104 for cable assembly procedures: 8-02
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

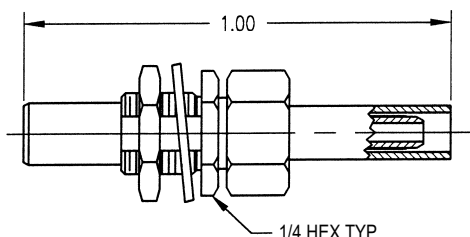
Straight Jack Captive Contact



Part Number	Cable
521-800-0360H	RG-178
521-800-0630H	RG-316
521-800-0631H	RG-316 double shielded

- See page 104 for cable assembly procedures: 8-02
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

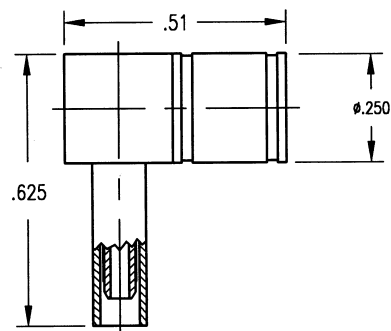
Straight Bulkhead Jack Captive Contact



Part Number	Cable	Mounting Hole
521-880-0360H	RG-178	No. 080
521-880-0630H	RG-316	No. 080
521-880-0631H	RG-316 double shielded	No. 080

- See page 104 for cable assembly procedures: 8-02
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Right Angle Plug

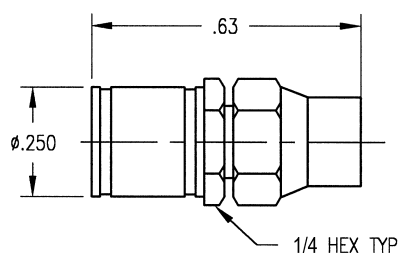


Part Number	Cable
522-900-0360H	RG-178
522-900-0630H	RG-316
522-900-0631H	RG-316 double shielded

- See page 110 for cable assembly procedures: 9-06
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SLIDE - ON: Clamp Flexible Cable

Straight Plug Captive Contact



Part Number	Cable
520-700-0360H	RG-178
520-700-0630H	RG-316
520-700-0631H	RG-316 double shielded

- See page 99 for cable assembly procedures: 7-03
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

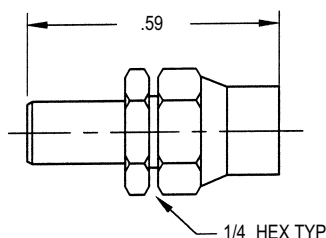
Note: Dimensions shown in inches.

Winchester/Retconn

400 Park Road • Watertown, Connecticut 06795-5000 • Phone: (860) 945-5000 • FAX: (860) 945-3950 • Internet: <http://www.litton-wed.com>

SLIDE - ON: Clamp Flexible Cable

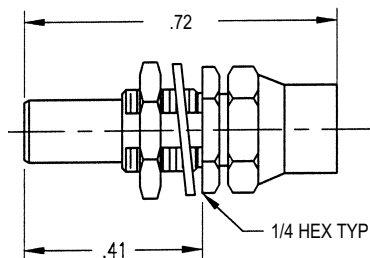
Straight Jack Captive Contact



Part Number	Cable
521-700-0360H	RG-178
521-700-0630H	RG-316
521-700-0631H	RG-316 double shielded

- See page 99 for cable assembly procedures: 7-03
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

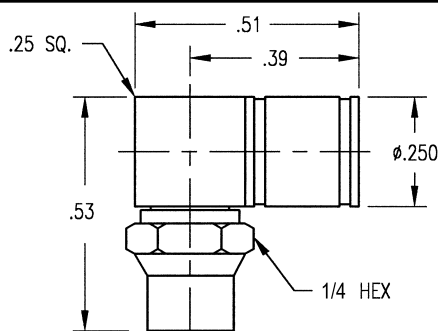
Straight Bulkhead Jack Captive Contact



Part Number	Cable	Mounting Hole
521-780-0360H	RG-178	No. 080
521-780-0630H	RG-316	No. 080
521-780-0631H	RG-316 double shielded	No. 080

- See page 99 for cable assembly procedures: 7-03
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Right Angle Plug

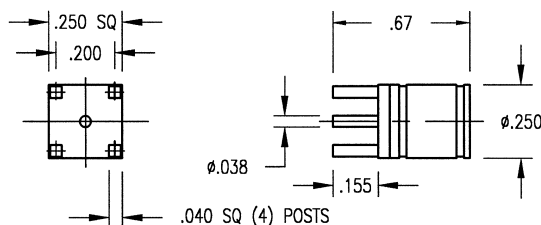


Part Number	Cable
522-700-0360H	RG-178
522-700-0630H	RG-316
522-700-0631H	RG-316 double shielded

- See page 100 for cable assembly procedures: 7-04
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

SLIDE - ON: Printed Circuit & Bulkhead Receptacles

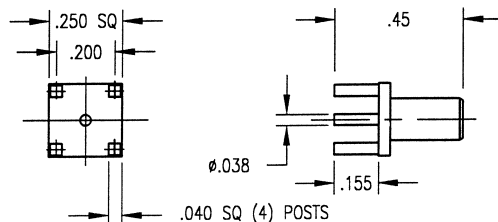
Straight Plug



Part Number	Mounting Hole
520-060-0040H	No. 060 A

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Jack



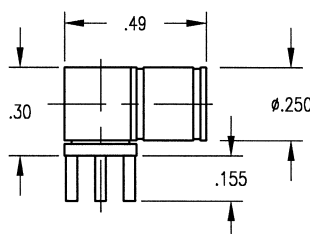
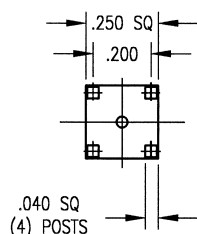
Part Number	Mounting Hole
521-060-0040H	No. 060 B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.

SLIDE - ON: Printed Circuit & Bulkhead Receptacles

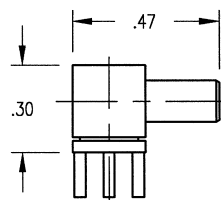
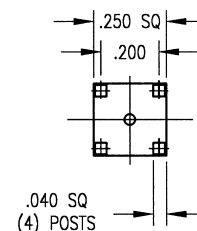
Right Angle Plug



Part Number	Mounting Hole
522-060-0040H	No. 060 B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

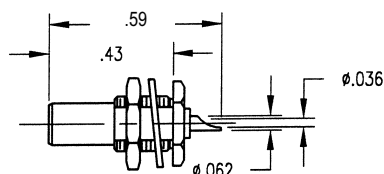
Right Angle Jack



Part Number	Mounting Hole
523-060-0040H	No. 060 B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

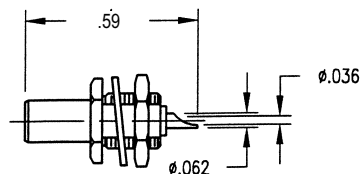
Straight Jack Rear Mount



Part Number	Mounting Hole
521-080-0000H	No. 080

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Jack Front Mount



Part Number	Mounting Hole
521-080-0001H	No. 080

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.

MCX: Specifications & Interface Dimensions

MATERIALS:

Body, Body Components: Brass per ASTM B16 1/2 HD
 Female Contacts: Beryllium Copper per ASTM B196
 Male Contacts: Brass ASTM B16 1/2 HD
 Insulators: Teflon per ASTM D1710
 Crimp Ferrule: Annealed Copper Alloy

Finish:

Center Contact: Gold Plated per MIL-G-45204
 Other Metal Parts: Gold or Nickel Plated to Meet
 Finish and Corrosion Requirements of CECC 22 220
 Engagement Forces: 5.6 lbs. Maximum
 Disengagement Forces: 1.8 lbs. Minimum
 Durability: 500 Cycles
 Contact Captivation: 2.3 lbs. Minimum

ELECTRICAL

Impedance: 50 Ohms Nominal
 Frequency Range: 0 to 6.0 GHz
 Insulation Resistance: 1000 Megohms Minimum
 Contact Resistance: (Milliohms Maximum)
 Center Contact 5.0
 Outer Contact 1.0

ELECTRICAL CONTINUED

Voltage Withstanding Wave Ratio:

	Straight	Right Angle
RG-196 Braided	1.20+ .025F	1.20+ .03F
RG-316 Braided	1.15+ .02F	1.15+ .03F

Dielectric Withstanding Voltage (DWV) @ Sea Level:

Connectors For RG-196 750 VRMS

Connectors For RG-316 1000 VRMS

Corona Level: Volts @ 70K Ft

Connectors For RG-196 190 Minimum

Connectors For RG-316 250 Minimum

RF High Potential Withstanding Voltage:

Frequency: 5 MHz

Leakage Current: N/A

Connectors For RG-196 500 VRMS

Connectors For RG-316 670 VRMS

R.F. Leakage: -60 dB Minimum @ 2 - 3 GHz

ENVIRONMENTAL

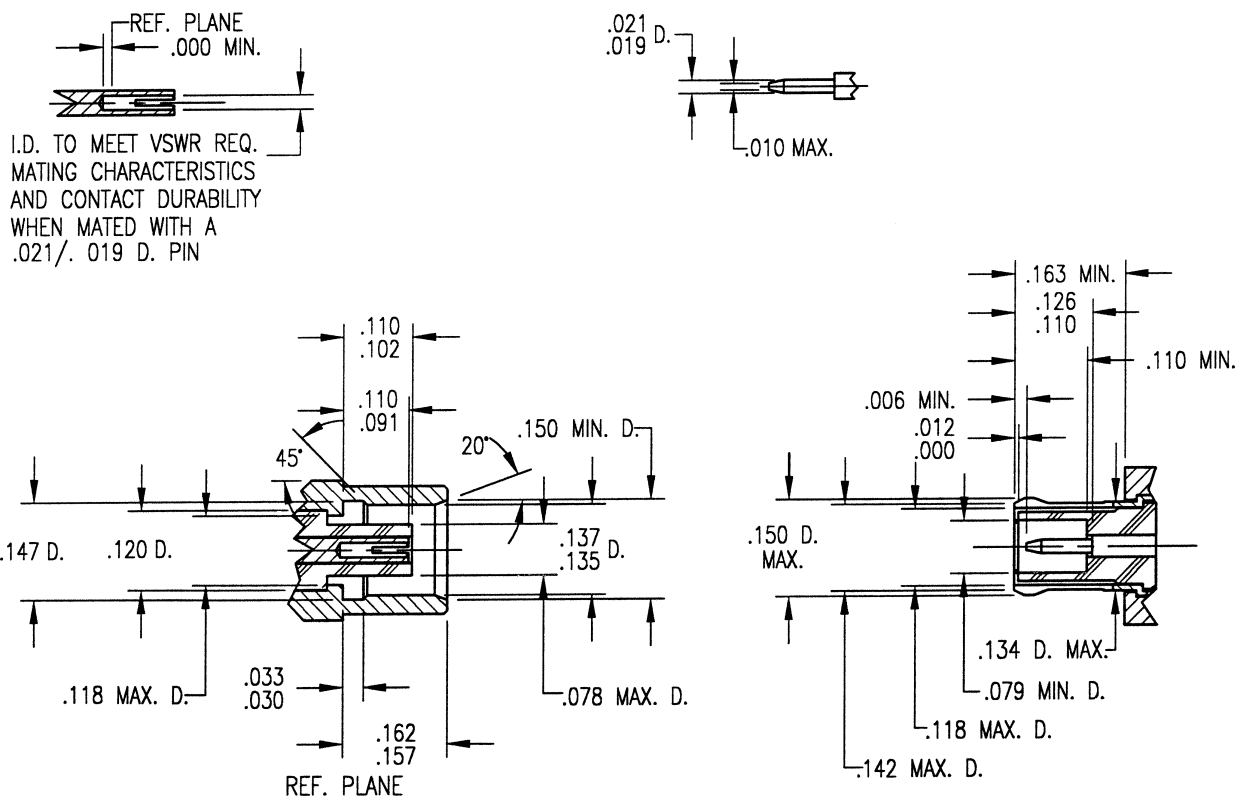
Temperature Rating: -65°C to +165°C.

Corrosion (Salt Spray): MIL-STD -202, Method 101, Condition B.

Vibration, High Frequency: MIL-STD-202, Method 204, Condition B.

Shock: MIL-STD-202, Method 102, Condition C.

INTERFACE DIMENSIONS (MEET CECC 22220)

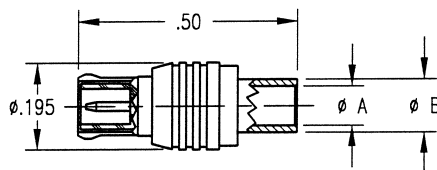


Note: Dimensions shown in inches.

Winchester/Retconn

MCX: Direct Solder, Semi-rigid Cable

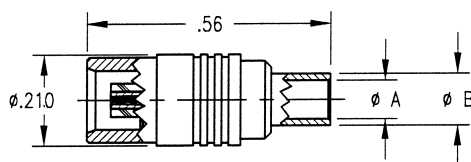
Straight Plug Captive Contact



Part Number	Cable	A	B
450-500-0470H	.047 S.R.	.052	.075
450-500-0850H	.085 S.R.	.089	.120
450-500-1410H	.141 S.R.	.144	.180

- See page 91 for cable assembly procedure: 5-11
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

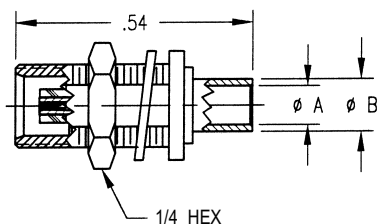
Straight Jack Captive Contact



Part Number	Cable	A	B
451-500-0470H	.047 S.R.	.052	.075
451-500-0850H	.085 S.R.	.089	.120
451-500-1410H	.141 S.R.	.144	.180

- See page 91 for cable assembly procedure: 5-11
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

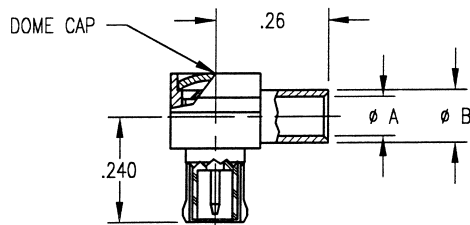
Straight Jack Bulkhead Mount Captive Contact



Part Number	Cable	A	B	Mounting Hole
451-580-0470H	.047 S.R.	.052	.075	No. 080
451-580-0850H	.085 S.R.	.089	.120	No. 080
451-580-1410H	.141 S.R.	.144	.180	No. 080

- See page 91 for cable assembly procedure: 5-11
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Right Angle Plug

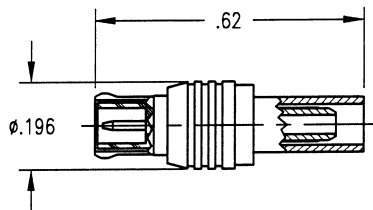


Part Number	Cable	A	B
452-500-0470H	.047 S.R.	.052	.075
452-500-0850H	.085 S.R.	.089	.120
452-500-1410H	.141 S.R.	.144	.180

- See page 92 for cable assembly procedure: 5-12
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

MCX: Crimp, Flexible Cable

Straight Plug Captive Contact



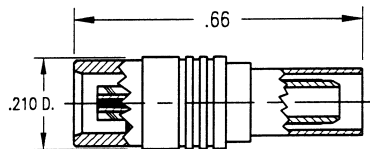
Part Number	Cable
450-900-0360H	RG-178
450-900-0630H	RG-316
450-900-0631H	RG-316 double shielded

- See page 111 for cable assembly procedure: 9-08
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.

MCX: Crimp, Flexible Cable

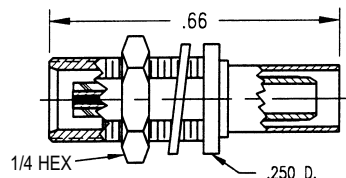
Straight Jack Captive Contact



Part Number	Cable
451-900-0360H	RG-178
451-900-0630H	RG-316
451-900-0631H	RG-316 double shielded

- See page 111 for cable assembly procedure: 9-08
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

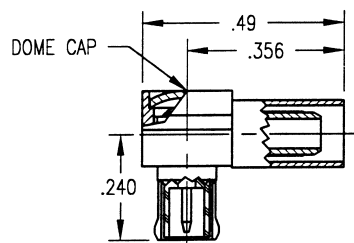
Straight Jack Bulkhead Mount Captive Contact



Part Number	Cable	Mounting Hole
451-980-0360H	RG-178	No. 080
451-980-0630H	RG-316	No. 080
451-980-0631H	RG-316 double shielded	No. 080

- See page 111 for cable assembly procedure: 9-08
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Right Angle Plug

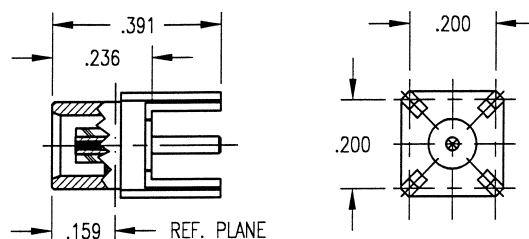


Part Number	Cable
452-900-0360H	RG-178
452-900-0630H	RG-316
452-900-0631H	RG-316 double shielded

- See page 112 for cable assembly procedure: 9-09
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

MCX: Printed Circuit Receptacles

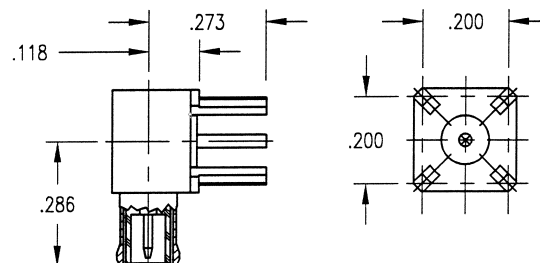
Straight Jack



Part Number	Mounting Hole
451-060-0046H	No. 060A

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

Right Angle Plug



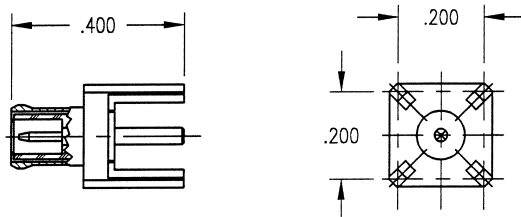
Part Number	Mounting Hole
452-060-0046H	No. 060A

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

Note: Dimensions shown in inches

MCX: Printed Circuit Receptacles

Straight Plug



Part Number	Mounting Hole
450-060-0046H	No. 060A

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

Right Angle Jack

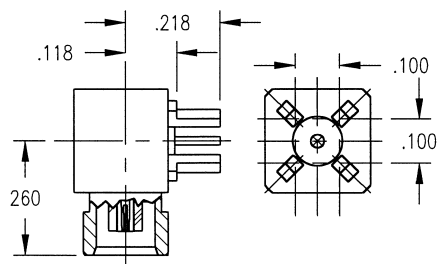


Figure 1

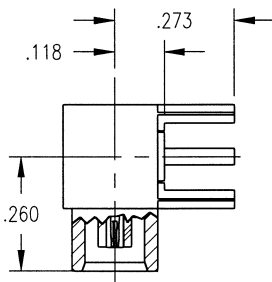


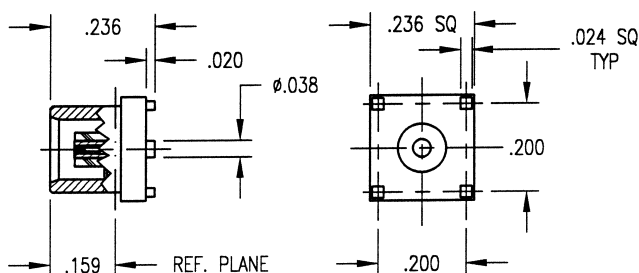
Figure 2

Part Number	Mounting Hole	Figure
453-040-0046H	No. 040A	1
453-060-0046H	No. 060A	2

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

MCX: Surface Mount Receptacle

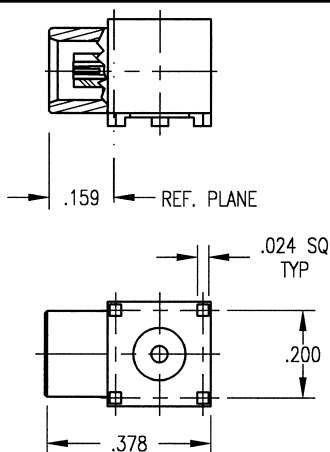
Straight Jack



Part Number
451-061-0040H

- Part number shown is for gold plated.

Right Angle Jack



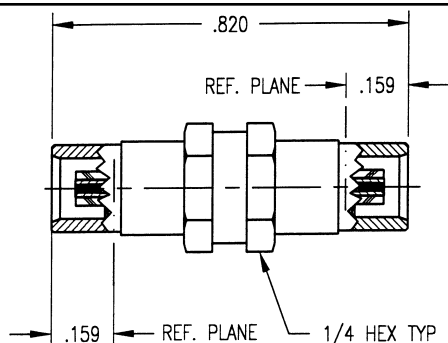
Part Number
453-060-0041H

- Part number shown is for gold plated.

Note: Dimensions shown in inches.

MCX: In - Series Adapters

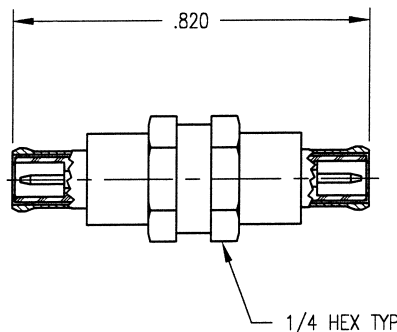
Jack - Jack



Part Number
451-451-0000H

- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

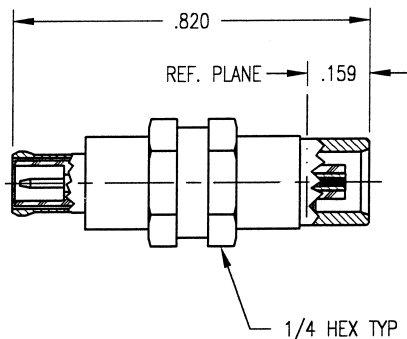
Plug - Plug



Part Number
450-450-0000H

- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Plug - Jack



Part Number
450-451-0000H

- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.

MMCX: Specifications & Interface Dimensions

MATERIALS:

Plug Body, Body Components: Brass per ASTM B16
Receptacle Body, Body Components: Brass per ASTM B16
Male and Female Contacts: Beryllium Copper per ASTM B196
Spring Ring: Beryllium Copper per ASTM B196
Insulators: PTFE (Teflon) per ASTM B196
Crimp Ferrule: Annealed Copper Alloy

Finish:

Center Contacts: Gold Plated per MIL-G-45204
Other Metal Parts: Gold or Nickel Plated to Meet the Corrosion Requirements of CECC 22340

MATING CHARACTERISTICS

Engagement Forces: 3.4 lbs. Maximum
Disengagement Forces: 1.4 lbs. Minimum
Durability: 500 Cycles
Contact Captivation: 2.3 lbs. Minimum

ELECTRICAL

Impedance: 50 Ohms Nominal
Frequency Range: 0 to 6.0 GHz
Insulation Resistance: 5000 Megohms Minimum
Contact resistance: (Milliohms Maximum)
Center Contact 5.0
Outer Contact 2.5

Electrical Continued

Voltage Standing Wave Ratio:

	<u>Straight</u>	<u>Right Angle</u>
RG-196 Braided	1.20+ .025F	1.25+ .03F
RG-316 Braided	1.20+ .02F	1.25+ .03F

Dielectric Withstanding Voltage (DWV): @ Sea Level

Connectors For RG-196	500
Connectors For RG-316	750

Corona Level: Volts @ 70K Ft

Connectors For RG-196	190 Minimum
Connectors For RG-316	250 Minimum

RF High Potential Withstanding Voltage

Frequency: 5 MHz

Leakage Current: N/A

Connectors For RG-196	400 VRMS
Connectors For RG-316	600 VRMS

R.F. Leakage: -55 dB Minimum @ 1 GHz

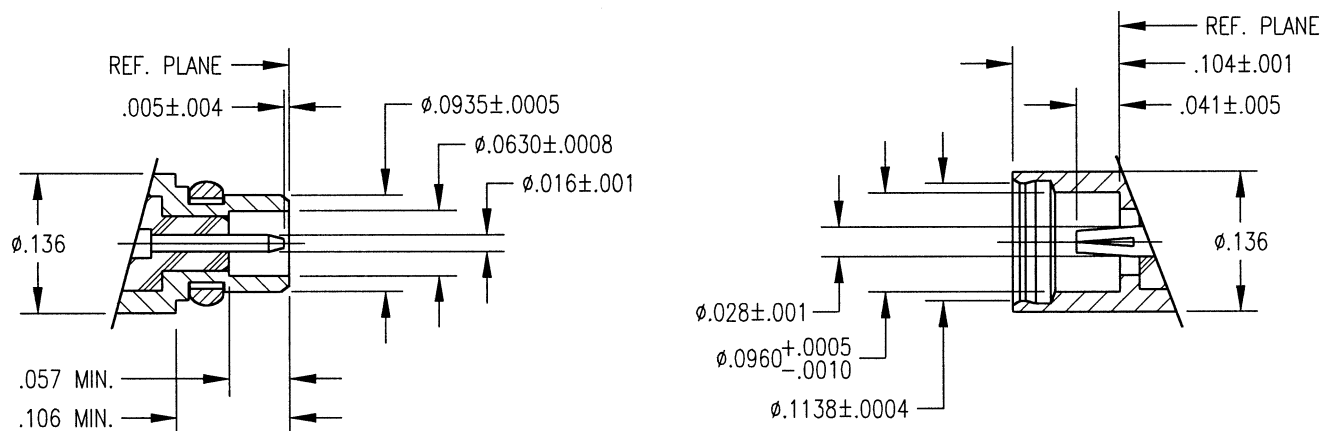
ENVIRONMENTAL

Temperature Rating: -65°C to +165°C

Corrosion (Salt Spray): MIL-STD-202, Method 101, Condition B.

Vibration, High Frequency: MIL-STD-202, Method 204, Condition D.

Shock: MIL-STD-202, Method 102, Test Condition C.

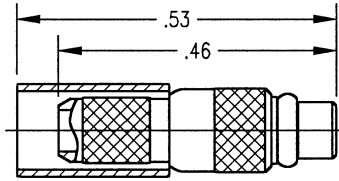


Note: Dimensions shown in inches.

Winchester/Retconn

400 Park Road • Watertown, Connecticut 06795-5000 • Phone: (860) 945-5000 • FAX: (860) 945-3950 • Internet: <http://www.litton-wed.com>

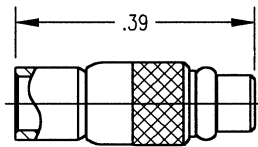
Straight Plug For Flexible Cable



Part Number	Cable
470-900-0360H	RG-178
470-900-0361H	RG-178 D.S.
470-900-0630H	RG-316
470-900-0631H	RG-316 D.S.
470-900-1000H	LMR 100

- See page 113 for cable assembly procedures: 9-17
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

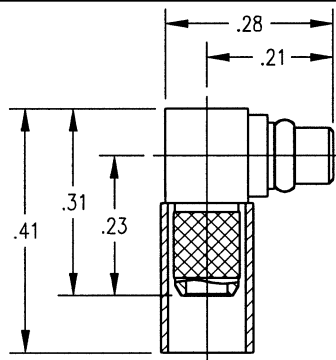
Straight Plug For Semi-rigid Cable



Part Number	Cable
470-500-0470H	.047" S.R.
470-500-0850H	.085" S.R.

- See page 93 for cable assembly procedures: 5-17
- Part number shown is for gold plated.

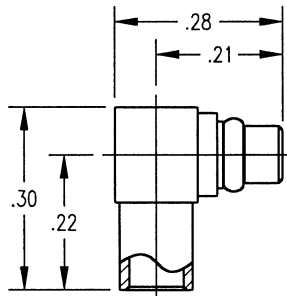
Right Angle Plug For Flexible Cable



Part Number	Cable
472-900-0360H	RG-178
472-900-0361H	RG-178 D.S.
472-900-0630H	RG-316
472-900-0631H	RG-316 D.S.
472-900-1000H	LMR 100

- See page 114 for cable assembly procedures: 9-18
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

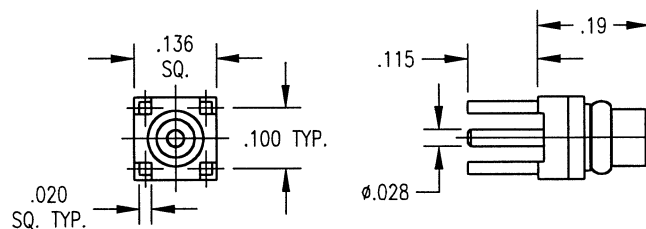
Right Angle Plug For Semi-rigid Cable



Part Number	Cable
472-900-0470H	.047" S.R.
472-500-0850H	.085" S.R.

- See page 94 for cable assembly procedures: 5-18
- Part number shown is for gold plated.

Straight P.C.B. Mount Plug

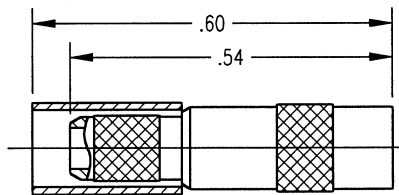


Part Number	Mounting Hole
470-040-0040H	No. 40B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

Note: Dimensions shown in inches.

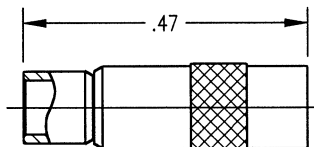
Straight Jack For Flexible Cable



Part Number	Cable
471-900-0360H	RG-178
471-900-0361H	RG-178 D.S.
471-900-0630H	RG-316
471-900-1000H	LMR 100

- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

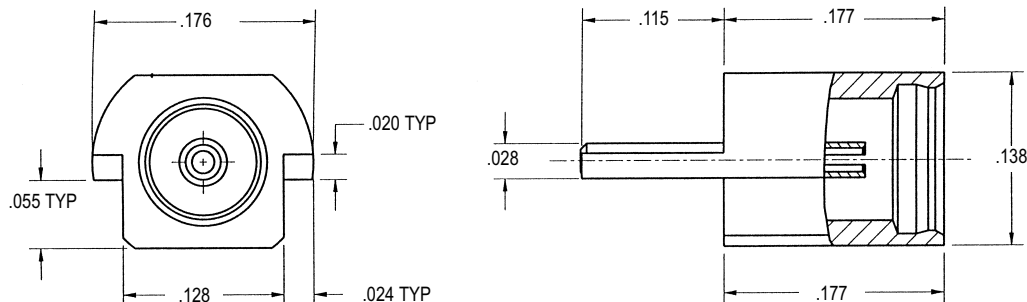
Straight Jack For Semi-rigid Cable



Part Number	Cable
471-500-0470H	.047" S.R.
471-500-0850H	.085" S.R.

- Part number shown is for gold plated.

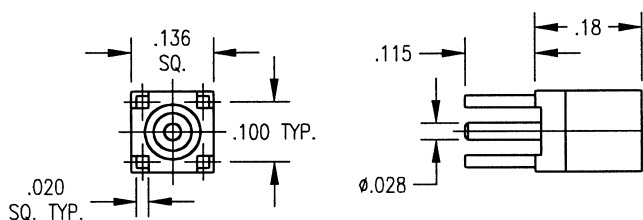
Edge Mount Jack



Part Number
471-086-0040H

- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

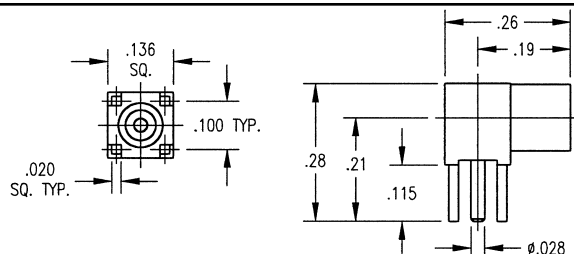
P.C.B. Mount Jack



Part Number	Mounting Hole
471-040-0040H	No. 40B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.

Right Angle P.C.B. Mount Jack



Part Number	Mounting Hole
473-040-0040H	No. 40B

- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Note: Dimensions shown in inches.

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

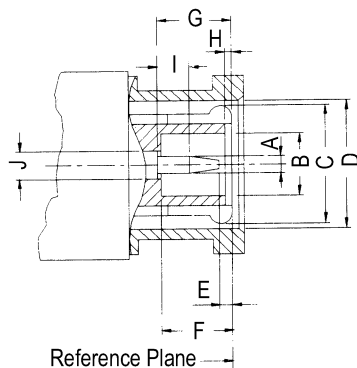
Mating: Two Stud Bayonet Coupling
 Durability: 500 Matings
 Coupling Nut Retention: 100 lbs. Minimum

ELECTRICAL

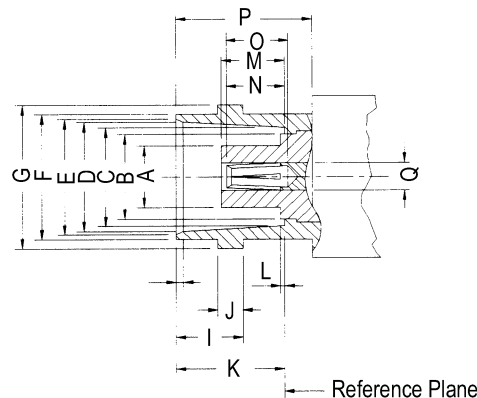
Impedance: 50 Ohm
 Frequency Range: 0 to 4.0 GHz
 Voltage Standing Wave Ratio: 1.3 Maximum
 Voltage Rating: 500 Volts RMS Maximum
 Connectors For RG-58,141,142,223 500 Volts RMS Maximum
 Connectors For RG-174,188,316 750 Volts RMS Maximum
 Contact Resistance:
 Center Contact 1.5 Milliohms Maximum
 Outer 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



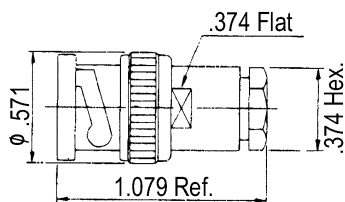
Jack		
Letter	Minimum	Maximum
A	-	.186
B	-	.256
C	.319	.321
D	.327	.333
E	.346	.356
F	.378	.382
G	.432	.436
H	.015	.030
I	.204	.208
J	.075	.081
K	.327	.335
L	-	.006
M	.189	.208
N	.186	.206
O	.195	-
P	.414	-
Q	.081	.087

Note: Dimensions shown in inches.

Winchester/Retconn

BNC: Flexible Cable - Clamp Attachment

Straight Plug Clamp

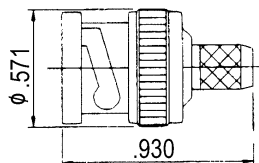


Part Number	Cable
580-700-1160Y	RG-303,141
580-700-1165Y	RG-59,210

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

BNC: Flexible Cable - Crimp Attachment

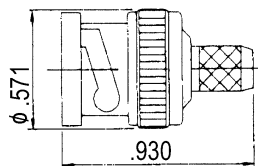
Straight Plug Crimp



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

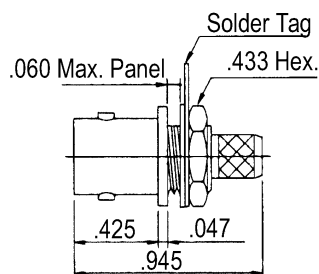


Part Number	Cable
580-900-0630Y	RG-316,188
580-900-0635Y	RG-179

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

BNC: Flexible Cable - Crimp Attachment

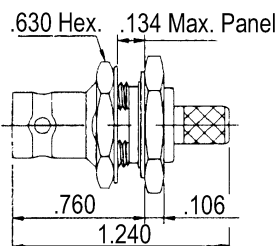
Straight Bulkhead Jack Crimp



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.

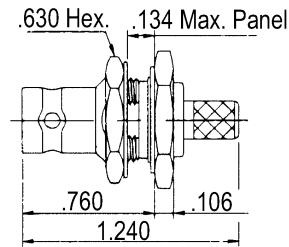
Note: Dimensions shown in inches.

Winchester/Retconn

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BNC: Flexible Cable - Crimp Attachment

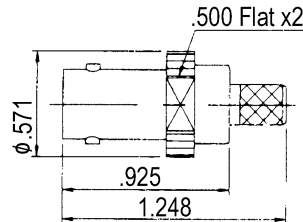
Straight Bulkhead Jack Crimp



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.

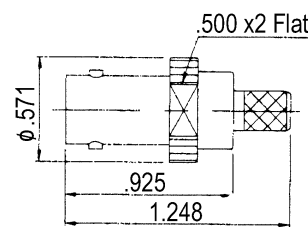
Straight Jack Crimp



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

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

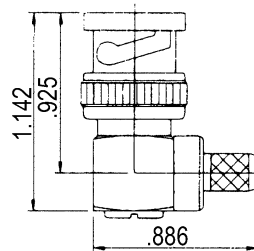
Straight Jack Crimp



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

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

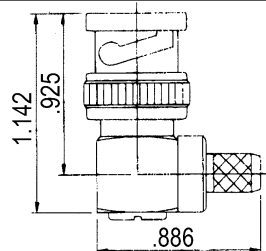
Right Angle Plug Crimp (Solder Contact)



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

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

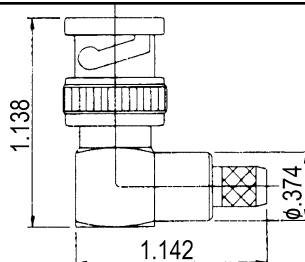
Right Angle Plug Crimp (Solder Contact)



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

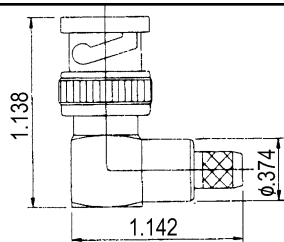
- See page 118 for cable assembly procedures: CM-05

Note: Dimensions shown in inches.

Winchester/Retconn

BNC: Flexible Cable - Crimp Attachment

Right Angle Plug Crimp (Crimp Contact)

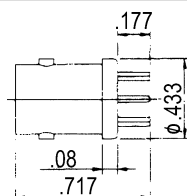


Part Number	Cable
582-900-0632Y	RG-316
582-900-0636Y	RG-179

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

BNC: Printed Circuit Board Receptacles

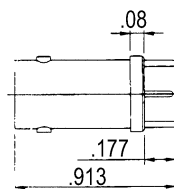
Straight PCB Mount Jack Receptacle



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

• See page 83 for mounting hole layout.

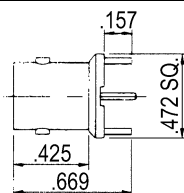
Straight PCB Mount Jack Receptacle



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

• See page 83 for mounting hole layout.

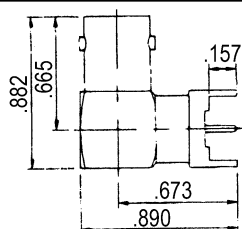
Straight PCB Mount Jack Receptacle



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

• See page 83 for mounting hole layout.

Right Angle PCB Mount Jack Receptacle

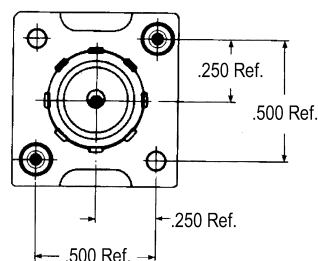
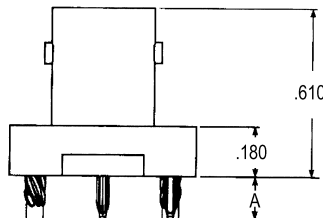
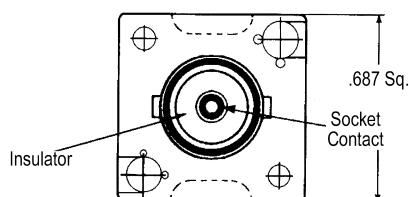


Part Number	Mounting Hole
583-071-0040Y	No. 071 C

• 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.

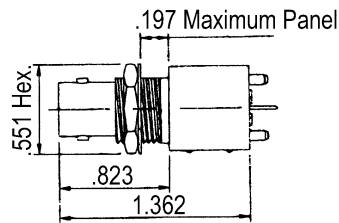
• C-Press® is a trademark of Litton Systems, Inc.

Winchester/Retconn

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BNC: Printed Circuit Board Receptacles

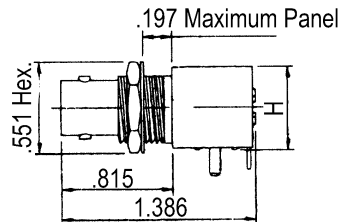
Straight PCB Mount Jack Receptacle (Valox Housing)



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)

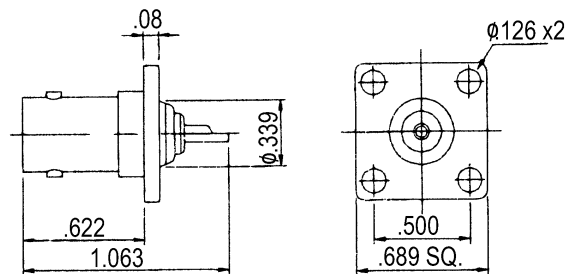


Part Number	Mounting Hole
583-024-6741Y (standard H=.614)	No. 024 A
583-024-6742Y (low profile H=.516)	No. 024 A

• See page 83 for mounting hole layout.

BNC: Panel Mount Receptacle (Solder Pot Contact)

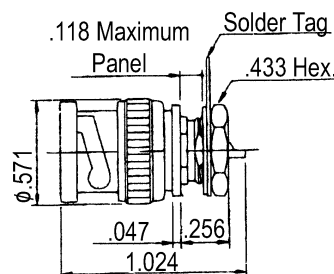
Square Flange Jack Receptacle



Part Number
581-050-0000Y

BNC: Bulkhead Mount Receptacles (Solder Pot Contact)

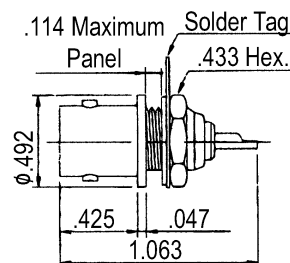
Straight Bulkhead Mount Receptacle



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.

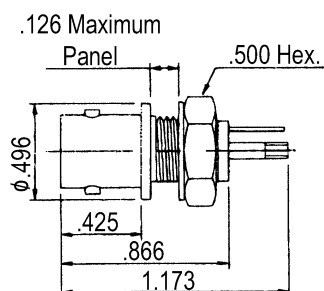
Winchester/Retconn

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RF/57

BNC: Bulkhead Mount Receptacles (Solder Pot Contact)

Isolated Bulkhead Jack Receptacle

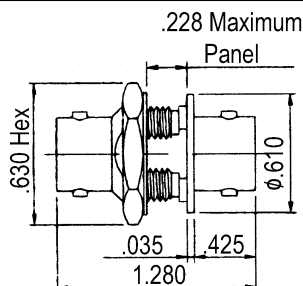


Part Number	Mounting Hole
581-029-0001Y	No. 029

• See page 83 for mounting hole layout.

BNC: Same Series Adapters

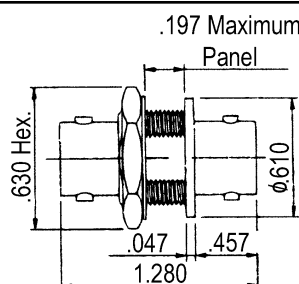
Bulkhead Jack - Jack



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

• See page 83 for mounting hole layout.

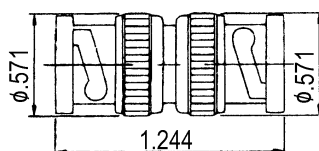
Isolated Bulkhead Jack - Jack



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

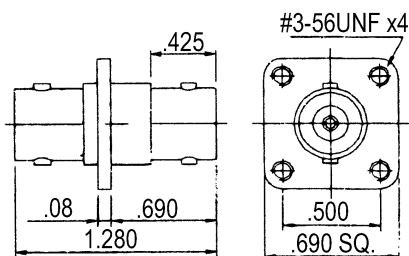
• See page 83 for mounting hole layout.

Plug - Plug



Part Number
580-580-0000Y

Square Flange Jack - Jack



Part Number
581-581-5000Y

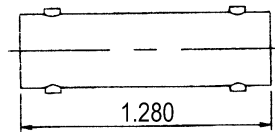
Note: Dimensions shown in inches.

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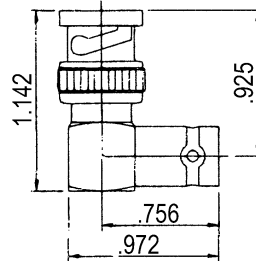
BNC: Same Series Adapters

Jack - Jack



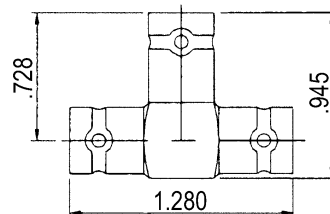
Part Number
581-581-0000Y diecast body

Right Angle Plug - Jack



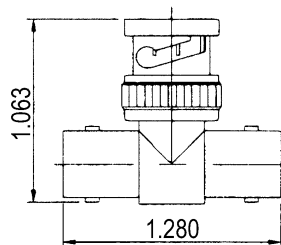
Part Number
582-583-0000Y

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.

TNC 50 Ohm 0 - 11 GHz: Specifications & Interface Dimensions

MATERIALS:

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

Finish:

Center Contact Male: Gold per MIL-G-45204
 Center Contact Female: Gold per MIL-G-45204
 Connector Body: Nickel per QQ-P-35

Mating Characteristics:

Mating: 7/16"-28 Threaded Coupling
 Durability: 500 Matings
 Coupling Nut Retention: 100 lbs. Minimum

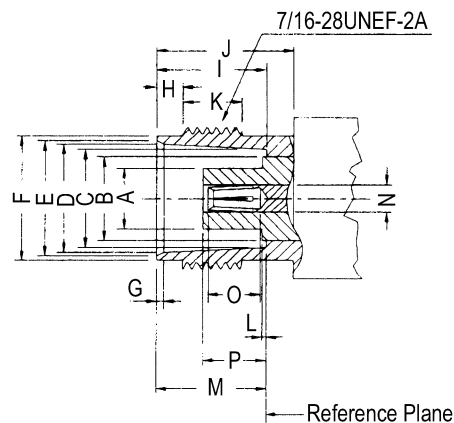
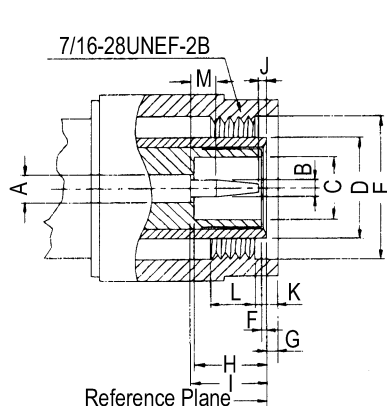
ELECTRICAL

Impedance: 50 Ohm
 Frequency Range: 0 to 11.0 GHz
 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
 Voltage Standing Wave Ratio: 1.3 Maximum
 Dielectric Withstanding Voltage: 1,500 Volts RMS Maximum
 Connectors For RG-58,141,142,223 - 1,000 Volts RMS Maximum
 Connectors For RG-174,188,316 - 750 Volts RMS Maximum
 Contact Resistance:
 Center Contact = 1.5 Milliohms Maximum
 Outer Contact = 0.2 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.

Note: Dimensions shown in inches.



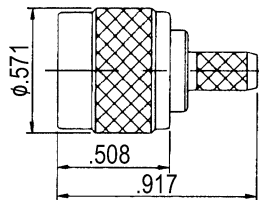
PLUG		
Letter	Minimum	Maximum
A	.081	.087
B	.052	.054
C	.190	-
D	-	.318
E	.440	-
F	.006	-
G	-	.078
H	.208	.228
I	.210	.230
J	.003	.040
K	.063	-
L	.156	-
M	.078	-

Jack		
Letter	Minimum	Maximum
A	-	.186
B	-	.256
C	.319	.321
D	.327	.333
E	.346	.356
F	.378	.381
G	.015	.030
H	.068	.088
I	.327	.335
J	.414	-
K	.187	-
L	-	.006
M	.188	.208
N	.081	.087
O	.195	-
P	.186	.206

Winchester/Retconn

TNC: Flexible Cable - Crimp Attachment

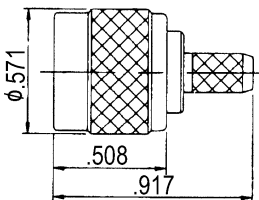
Straight Plug Crimp



Part Number	Cable
590-900-1160Y	RG-303,141
590-900-1165Y	RG-58,210

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

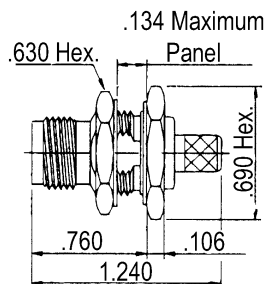
Straight Plug Crimp



Part Number	Cable
590-900-0630Y	RG-316
590-900-0635Y	RG-179

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

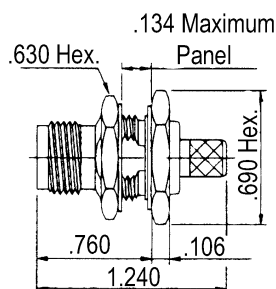
Straight Bulkhead Jack Crimp



Part Number	Cable	Mounting Hole
591-924-1160Y	RG-303,141	No. 024
591-924-1165Y	RG-59,210	No. 024

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

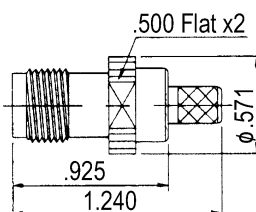
Straight Bulkhead Jack Crimp



Part Number	Cable	Mounting Hole
591-924-0630Y	RG-316	No. 024
591-924-0635Y	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
591-900-1160Y	RG-303,141
591-900-1165Y	RG-59,210

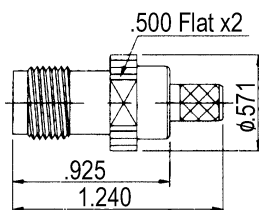
• See page 116 for cable assembly procedures: CM-03

Note: Dimensions shown in inches.

Winchester/Retconn

TNC: Flexible Cable - Crimp Attachment

Straight Bulkhead Jack Crimp

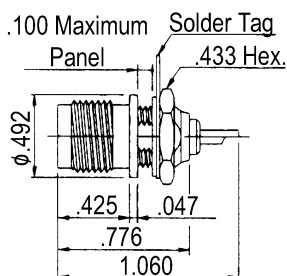


Part Number	Cable
591-900-0630Y	RG-174,188A,316
591-900-0635Y	RG-179B,187A

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

TNC: Bulkhead, Panel, PCB Mount Receptacles

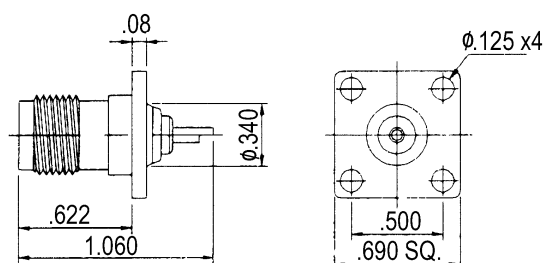
Straight Bulkhead Jack Receptacle



Part Number	Mounting Hole
591-029-0000Y	No. 029

• See page 83 for mounting hole layout.

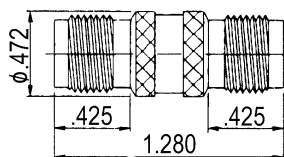
Square Flange Jack Receptacle



Part Number
591-050-0000Y

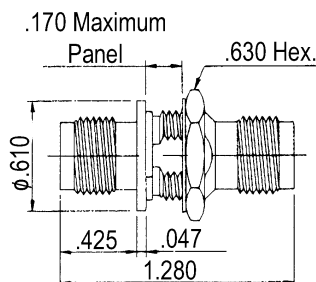
TNC: SAME SERIES ADAPTERS

Jack - Jack



Part Number
591-591-0000Y

Bulkhead Jack - Jack



Part Number	Mounting Hole
591-591-2400Y	No. 024

• See page 83 for mounting hole layout.

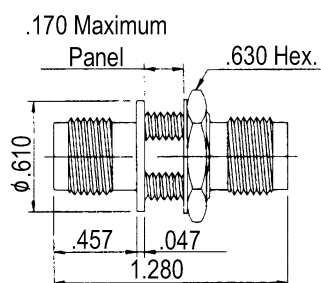
Note: Dimensions shown in inches.

Winchester/Retconn

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TNC: SAME SERIES ADAPTERS

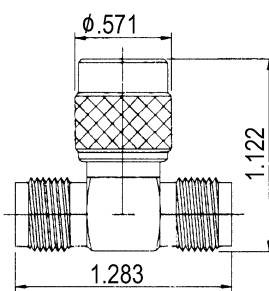
Isolated Bulkhead Jack - Jack



Part Number	Mounting Hole
591-591-2401Y	No. 024

• See page 83 for mounting hole layout.

Tee Adapter Jack - Plug - Jack



Part Number
594-595-0000Y

Note: Dimensions shown in inches.

N 50 Ohm : Specifications and Interface Dimensions

MATERIALS:

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

Finish:

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

MATING CHARACTERISTICS

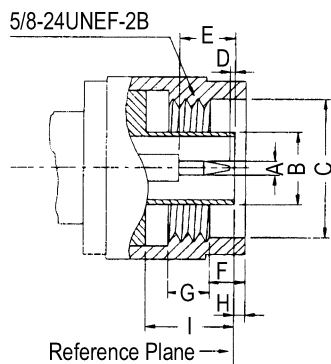
Mating: 5/8" - 24 Threaded Coupling
 Durability: 500 Matings
 Coupling Nut Retention: 100 lbs. Minimum

ELECTRICAL

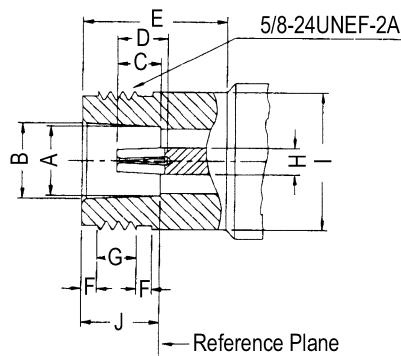
Impedance: 50 Ohm
 Frequency Range: 0 to 12.4 GHz
 Voltage Standing Wave Ratio: 1.15+ 0.015 xF GHz Maximum
 Dielectric Withstanding Voltage: 2,500 Volts RMS Maximum
 Connectors For RG-58,141,142,223 - 1,000 Volts RMS Maximum
 Connectors For RG-174,188,316 - 750 Volts RMS Maximum
 Contact Resistance:
 Center Contact= 1.0 Milliohms Maximum
 Outer Contact= 0.2 Milliohms Maximum
 RF Leakage: 90 dB Minimum @ 3 GHz
 Insertion Loss: .15 dB Maximum @ 10 GHz
 Insertion Resistance: 5,000 Megohms Minimum

ENVIRONMENTAL

Temperature Range: -65°C to 165°C
 Vibration: MIL-STD-202, Method 204, Test Condition B.
 Salt Spray: MIL-STD-202, Method 101, Test Condition B.
 Temperature Cycling: MIL-STD-202, Method 107, Test Condition B.



PLUG		
Letter	Minimum	Maximum
A	.063	.066
B	.313	.3158
C	.630	-
D	.003	-
E	.210	.230
F	.158	.168
G	.177	-
H	.016	.060
I	.398	.412



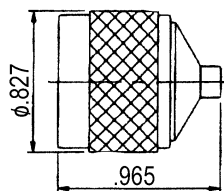
Jack		
Letter	Minimum	Maximum
A	.316	.320
B	.336	.344
C	.187	.207
D	.210	-
E	.422	-
F	.047	.077
G	.172	.202
H	.118	.124
I	-	.627
J	.356	.362

Note: Dimensions shown in inches.

Winchester/Retconn

N SERIES: For Semi-Rigid Cable (Direct Solder Attachment)

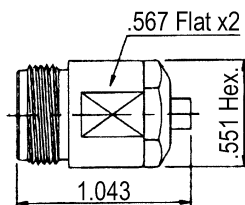
Straight Plug



Part Number	Cable
600-500-1410Y	RG-402 (.141")
600-500-0850Y	RG-405 (.085")
600-500-2500Y	RG-401 (.250")

• See page 115 for cable assembly procedures: CM-01

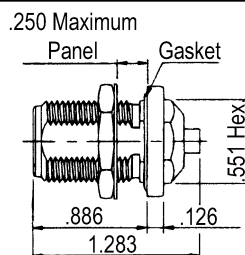
Straight Jack



Part Number	Cable
601-500-1410Y	RG-402 (.141")
601-500-0850Y	RG-405 (.085")
601-500-2500Y	RG-401 (.250")

• See page 115 for cable assembly procedures: CM-01

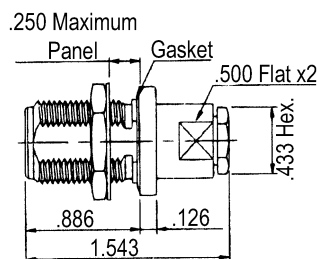
Straight Bulkhead Jack



Part Number	Cable	Mounting Hole
601-526-1410Y	RG-402 (.141")	No. 026
601-526-0850Y	RG-405 (.085")	No. 026
601-526-2500Y	RG-401 (.250")	No. 026

• See page 115 for cable assembly procedures: CM-01
• See page 83 for mounting hole layout.

Straight Bulkhead Jack

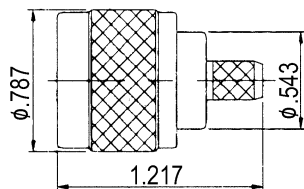


Part Number	Cable	Mounting Hole
601-626-2500Y	RG-401 (.250")	No. 026

• See page 116 for cable assembly procedures: CM-01
• See page 83 for mounting hole layout.

N SERIES: Flexible Cable - Crimp Attachment

Straight Plug Crimp



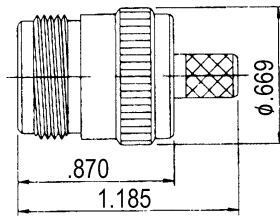
Part Number	Cable
600-900-2850Y	RG-8A,213
600-900-2851Y	RG-9B,214
600-900-1160Y	RG-58,58A,141A
600-900-1165Y	RG-59,62A,210

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

Note: Dimensions shown in inches.

N SERIES: Flexible Cable - Crimp Attachment

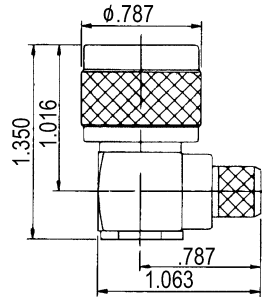
Straight Jack Crimp



Part Number	Cable
601-900-2850Y	RG-8A,213
601-900-2851Y	RG-9B,214
601-900-1160Y	RG-58,58A,141A
601-900-1165Y	RG-59,62A,210

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

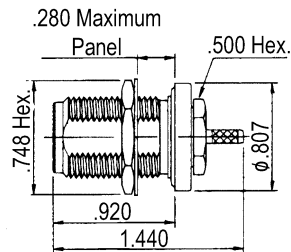
Right Angle Plug Crimp



Part Number	Cable
602-900-2850Y	RG-8A,213
602-900-2851Y	RG-9B,214
602-900-1160Y	RG-58,58A,141A
602-900-1165Y	RG-59,62A,210

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

Straight Bulkhead Jack Crimp

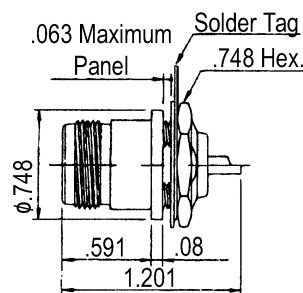


Part Number	Cable	Mounting Hole
601-926-0630Y	RG-174,188A,316	No. 026

• See page 83 for mounting hole layout.

N SERIES: Bulkhead Mount Receptacles

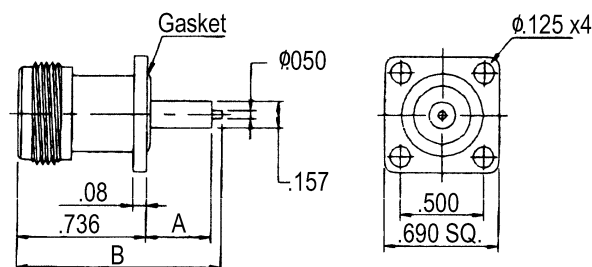
Straight Bulkhead Jack Crimp Style (Solder Pot Contact)



Part Number	Mounting Hole
601-025-0000Y	No. 025

• See page 83 for mounting hole layout.

Square Flange Jack Receptacle (Exposed Teflon)



Part Number	A	B
601-050-0040Y	.256	1.10
601-050-0041Y	.732	1.57

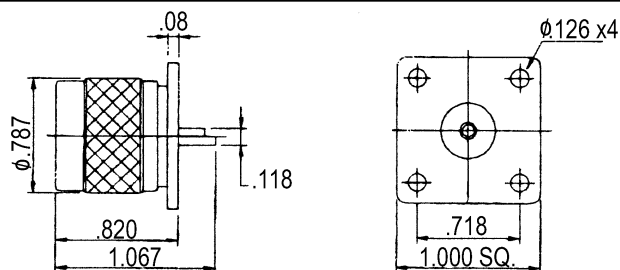
Note: Dimensions shown in inches.

Winchester/Retconn

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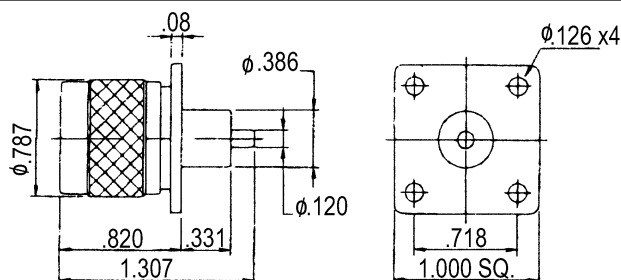
N SERIES: Bulkhead Mount Receptacles

Square Flange Plug Receptacle (Solder Pot Contact)



Part Number
600-073-0000Y

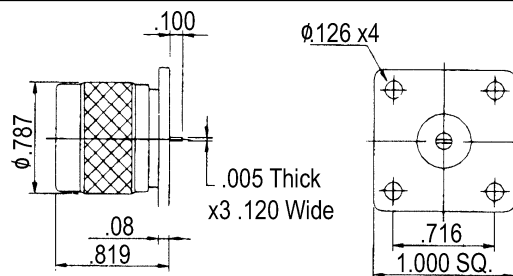
Square Flange Plug Receptacle (Exposed Teflon)



Part Number
600-073-0040Y

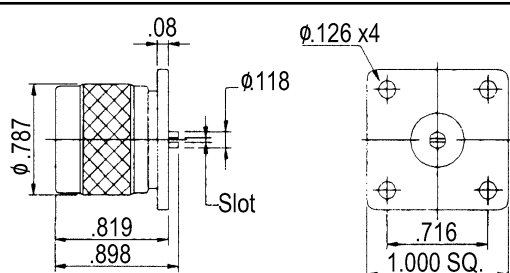
N SERIES: Panel Mount Receptacle

Square Flange Plug Receptacle (Tab Contact)



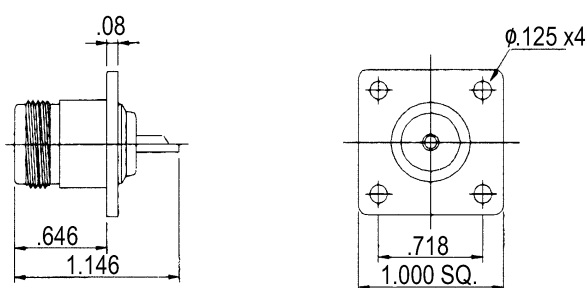
Part Number
600-073-0030Y

Square Flange Plug Receptacle (Slotted Contact)



Part Number
600-073-0020Y

Square Flange Jack Receptacle (Solder Pot Contact)



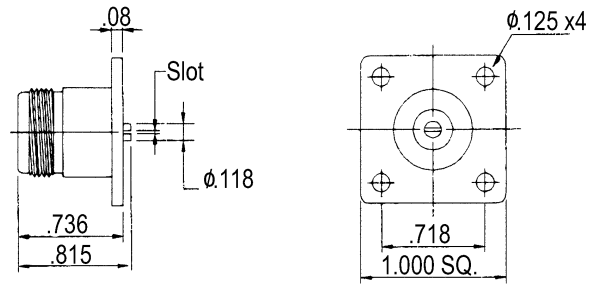
Part Number
601-073-0000Y

Note: Dimensions shown in inches.

Winchester/Retconn

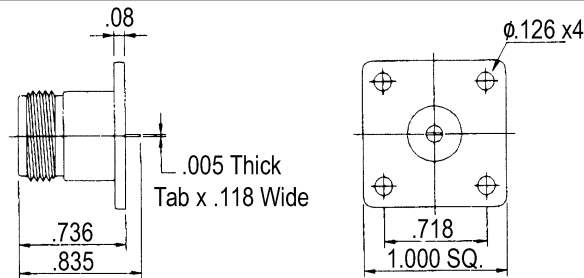
N SERIES: Panel Mount Receptacle

Square Flange Jack Receptacle (Slotted Contact)



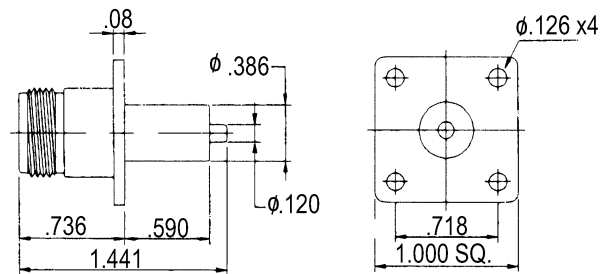
Part Number
601-073-0020Y

Square Flange Jack Receptacle (Tab Contact)



Part Number
601-073-0030Y

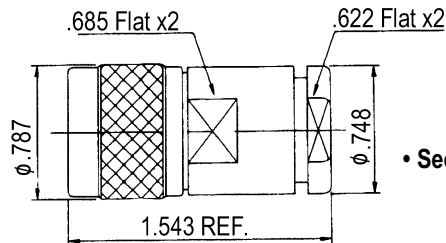
Square Flange Jack Receptacle (Exposed Teflon)



Part Number
601-073-0040Y

N SERIES: Flexible Cable - Clamp Attachment

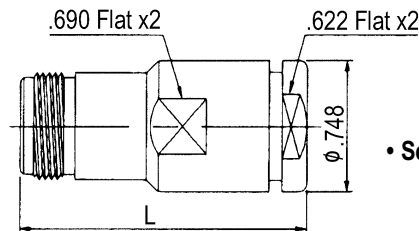
Straight Plug Clamp



Part Number	Cable
600-800-2850Y	RG-8A,213
600-800-2851Y	RG-9B,214
600-800-1160Y	RG-58,141A
600-800-1165Y	RG-59,210

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

Straight Jack Clamp



Part Number	Cable
601-800-2850Y	RG-8A,213
601-800-2851Y	RG-9B,214
601-800-1160Y	RG-58,141A
601-800-1165Y	RG-59,210

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

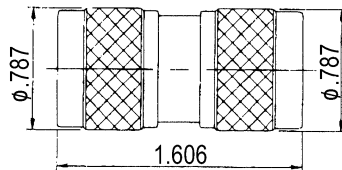
Note: Dimensions shown in inches.

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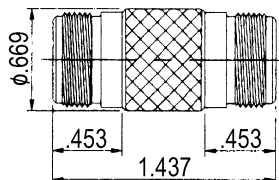
N SERIES: In-Series Adapters

Plug - Plug



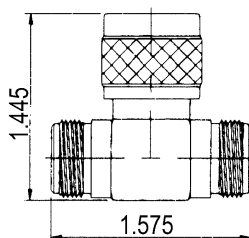
Part Number
600-600-0000Y

Jack - Jack



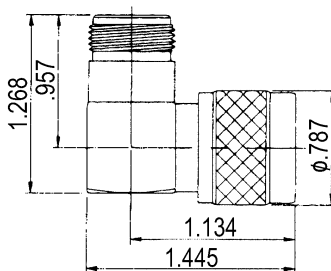
Part Number
601-601-0000Y

Tee Adapter Jack - Plug - Jack



Part Number
604-605-0000Y

Right Angle Plug - Jack



Part Number
602-603-0000Y

Note: Dimensions shown in inches.

MINI-UHF 50 Ohm 0-2.5 GHz: Specifications

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
Insulators: Teflon or Delrin
Crimp Ferrule: Annealed Copper Alloy

Finish:

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

Mating Characteristics:

Mating: 3/8"-24 Threaded Coupling

Cable Retention:

Connectors For RG- 58,141,142,223 - 40 lbs. Minimum

Connectors For RG-174,188,316 - 20 lbs. Minimum

Durability: 500 Matings

ELECTRICAL

Impedance: 50 Ohm

Frequency Range: 0 to 2.5GHz

Voltage Rating: 335 Volts RMS Maximum

Voltage Standing Wave Ratio: 1.25 Maximum

Dielectric Withstanding Voltage: 1,000 Volts RMS Maximum

Contact Resistance:

Center Contact = 1.5 Milliohms Maximum

Outer Contact = 1.0 Milliohms Maximum

RF Leakage: -55 dB Minimum @ 2.5GHz

Insertion Loss: .2 dB Maximum @2.5GHz

Insertion Resistance: 5,000 Megohms Minimum

ENVIRONMENTAL

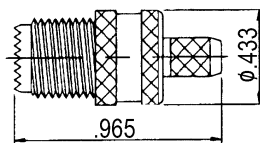
Temperature Range: -55°C to 85°C

Vibration: MIL-STD-202, Method 204, Test Condition B.

Salt Spray: MIL-STD-202, Method 101, Test Condition B.

MINI-UHF: Flexible Cable Crimp Attachment

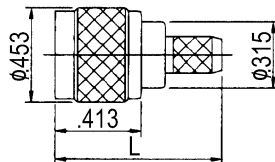
Straight Jack Crimp



Part Number	Cable
621-900-1160Y	RG-58,58A,141A
621-900-0630Y	RG-174,188A,316

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

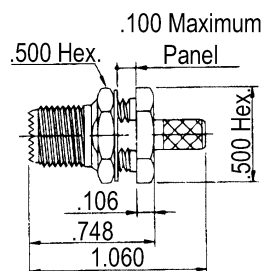
Straight Plug Crimp



Part Number	Cable
620-900-1160Y	RG-58,58A,141A
620-900-0630Y	RG-174,188A,316

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

Straight Bulkhead Jack, Crimp



Part Number	Cable	Mounting Hole
621-930-1160Y	RG-58,58A,141A	No. 030
621-930-1165Y	RG-59,62A,210	No. 030

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

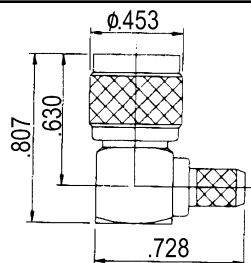
Note: Dimensions shown in inches.

Winchester/Retconn

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MINI-UHF: Flexible Cable Crimp Attachment

Right Angle Plug Crimp

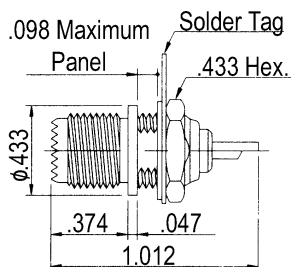


Part Number	Cable
622-900-1160Y	RG-58,58A,141A

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

MINI-UHF: Bulkhead, Panel & PCB Mount Receptacles

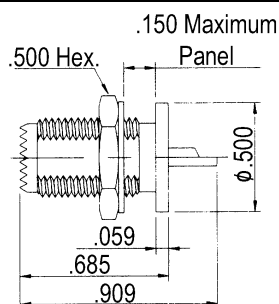
Straight Bulkhead Jack Receptacle (Front Mount)



Part Number	Mounting Hole
621-029-0000Y	No. 029

• See page 83 for mounting hole layout.

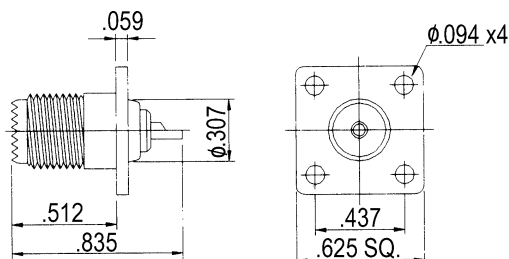
Straight Bulkhead Jack Receptacle (Rear Mount)



Part Number	Mounting Hole
621-031-0000Y	No. 031

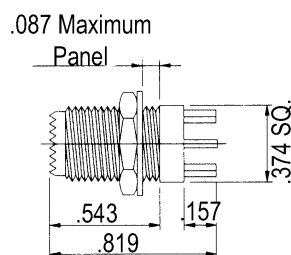
• See page 83 for mounting hole layout.

Square Flange Jack Receptacle



Part Number
621-064-0000Y

Straight PCB Mount Jack Receptacle



Part Number	Mounting Hole
621-092-0040Y	No. 092

• See page 83 for mounting hole layout.

Note: Dimensions shown in inches.

Winchester/Retconn

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RF/71

REVERSE POLARITY SMA: Specifications

MATERIALS:

Connector Body: Brass per ASTM B16
Center Contact Male: Brass per ASTM B16
Center Contact Female: Beryllium Copper per ASTM B196
Insulators: Teflon per ASTM D1710
Gasket: Silicone Rubber per QQ-R-765
Crimp Ferrule: Annealed Copper Alloy

Finish:

Center Contact Male: Gold Plated per MIL-G-45204
Center Contact Female: Gold per MIL-G-45204
Connector Body: Gold per MIL-G-45204

Mating Characteristics:

Mating: 1/4"-36 Threaded Coupling
Cable Retention:
Connectors For RG- 58,141,142,223 - 40 lbs. Minimum
Connectors For RG-174,188,316 - 20 lbs. Minimum
Durability: 500 Matings
Coupling Nut Retention: 60 lbs. Minimum

ELECTRICAL

Impedance: 50 Ohm
Frequency Range: 0 to 18.0GHz / R/A 0 to 12.4 GHz
Connectors For RG-402 and RG-405 semi-rigid cable 0 to 18.0 GHz
For Flexible Cable -- Maximum Operation Frequency of Cable per MIL-C-17
Voltage Rating: 375 Volts RMS Maximum
Voltage Standing Wave Ratio:
Semi-rigid Cable: 1.05 +0.005 Xf GHz Maximum (Straight)
1.15 +0.015 Xf GHz Maximum (Right Angle)
Flexible Cable: 1.15 +0.01 Xf GHz Maximum (Straight)
1.18 +0.02 Xf GHz Maximum (Right Angle)
Dielectric Withstanding Voltage: 1,000 Volts RMS
Insertion Loss: .04 dB Maximum Xf GHz (Straight)
.06 dB Maximum Xf GHz (Right Angle)
Insulation Resistance: 5,000 Megohms Minimum

ENVIRONMENTAL

Temperature Range: -65°C to 165°C

REVERSE POLARITY BNC, TNC: Specifications

MATERIALS:

Connector Body: Brass per ASTM B16
Center Contact Male: Brass per ASTM B16
Center Contact Female: Brass, Phosphor Bronze or Beryllium Copper
Insulators: Teflon per ASTM D1710
Gasket: Silicone Rubber, per QQ-R-765
Crimp Ferrule: Annealed Copper Alloy

Finish:

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

Mating Characteristics:

Mating: BNC: Two Stud Bayonet Coupling
TNC: 7/16"-28 Thread Coupling
Durability: 500 Matings
Coupling Nut Retention: 100 lbs. Minimum

ELECTRICAL

Impedance: BNC: 50 Ohm
TNC: 50 Ohm
Frequency Range: BNC: 0-4 GHz
TNC: 0-11 GHz
Voltage Rating: 500 Volts RMS Maximum
Voltage Standing Wave Ratio: 1.3 Maximum
Dielectric Withstanding Voltage: 1,500 Volts RMS Maximum
Insertion Loss: .2 dB Maximum @3 GHz
Insulation Resistance: 5,000 Megohms Minimum

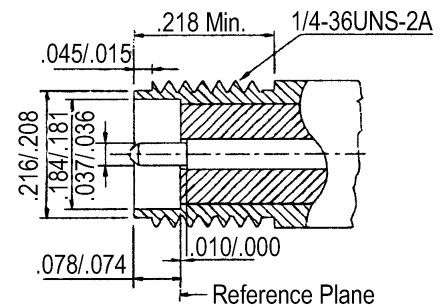
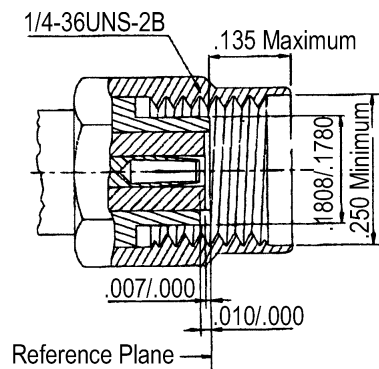
ENVIRONMENTAL

Temperature Range: -65°C to 85°C

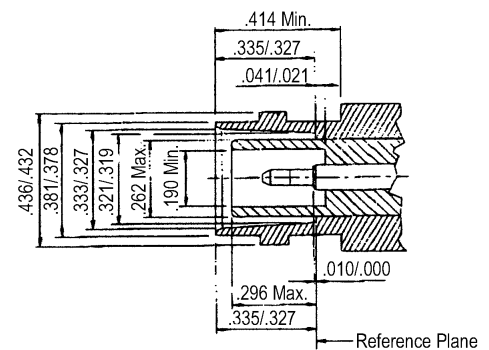
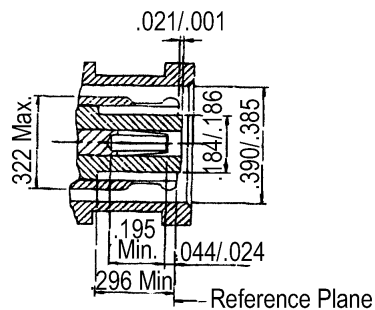
REVERSE POLARITY CONNECTORS: SMA, BNC, TNC

Interface Dimensions

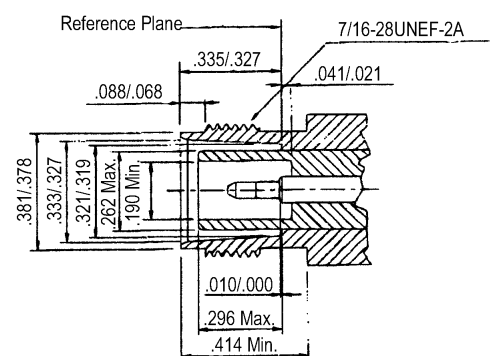
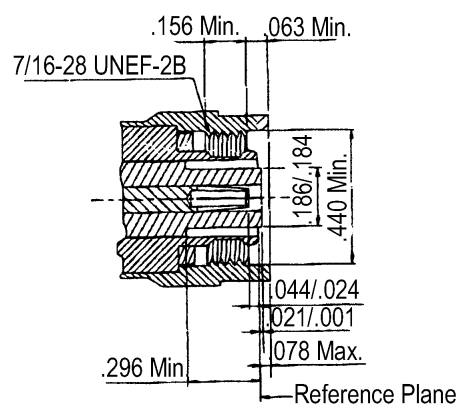
Reverse Polarity SMA:



Reverse Polarity BNC:



Reverse Polarity TNC:



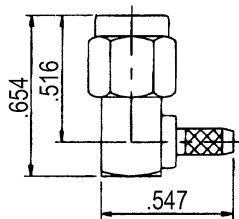
Note: Dimensions shown in inches.

Winchester/Retconn

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REVERSE POLARITY SMA: Flexible Cable-Crimp Attachment

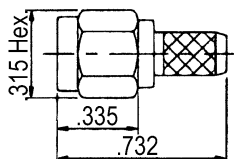
Right Angle Plug, Crimp



Part Number	Cable
258-900-0630Y	RG-174,188A,316
258-900-1160Y	RG-58,58A,141A
258-900-1161Y	RG-142

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

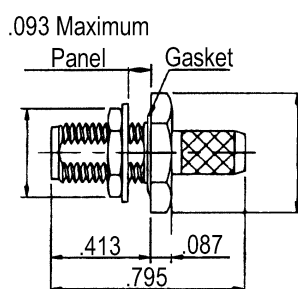
Straight Plug, Crimp



Part Number	Cable
256-900-0630Y	RG-174,188A,316
256-900-1160Y	RG-58,58A,141A
256-900-1161Y	RG-142

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

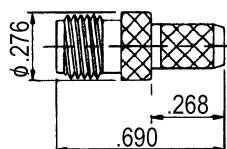
Straight Bulkhead Jack,



Part Number	Cable
257-975-0630Y	RG-174,188A,316
257-975-1160Y	RG-58,58A,141A
257-975-1161Y	RG-142

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

Straight Jack, Crimp

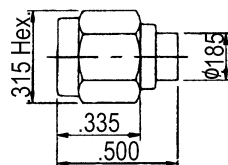


Part Number	Cable
257-900-0630Y	RG-174,188A,316
257-900-1160Y	RG-58,58A,141A
257-900-1161Y	RG-142

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

REVERSE POLARITY SMA: Semi-Rigid Cable Direct Solder

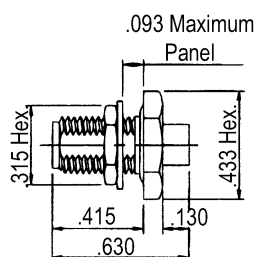
Straight Plug



Part Number	Cable
256-500-1410Y	RG-402 (.141")
256-500-0850Y	RG-405 (.085")

• See page 115 for cable assembly procedures: CM-01

Straight Bulkhead Jack



Part Number	Cable	Mounting Hole
257-575-0850Y	RG-405 (.085")	No. 075
257-575-1410Y	RG-402 (.141")	No. 075

• See page 115 for cable assembly procedures: CM-01
• See page 83 for mounting hole layout.

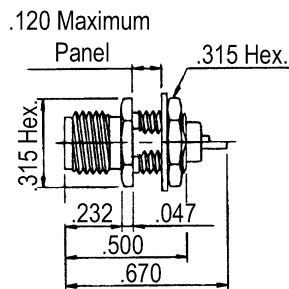
Note: Dimensions shown in inches.

Winchester/Retconn

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Bulkhead: PCB Mount Receptacles

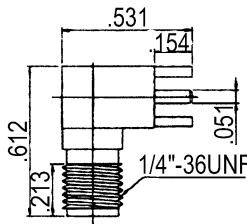
Straight Bulkhead Jack Receptacle (Front Mount)



Part Number	Mounting Hole
257-075-0000Y	No. 075

• See page 83 for mounting hole layout.

Right Angle PCB Mount Jack Receptacle

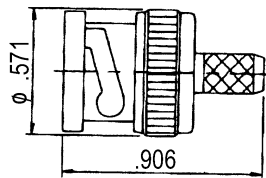


Part Number	Mounting Hole
259-060-0040Y	No. 060 D

• See page 83 for mounting hole layout.

REVERSE POLARITY BNC: Flexible Cable - Crimp Attachment

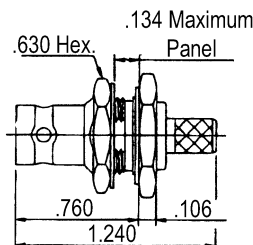
Straight Plug Crimp



Part Number	Cable
586-900-1160Y	RG-58,58A,141A
586-900-1161Y	RG-142

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

Straight Bulkhead Jack, Crimp

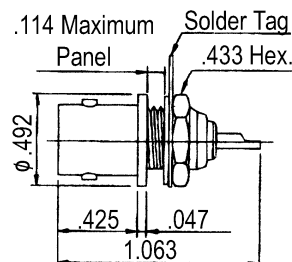


Part Number	Cable	Mounting Hole
587-924-1160Y	RG-58,58A,141A	No. 024
587-924-1161Y	RG-142	No. 024

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

Bulkhead: PCB Mount Receptacles

Straight Bulkhead Jack Receptacle



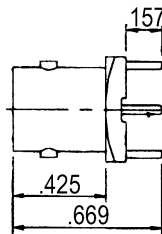
Part Number	Mounting Hole
587-029-0000Y	No. 029

• See page 83 for mounting hole layout.

Note: Dimensions shown in inches.

Bulkhead: PCB Mount Receptacles

Straight PCB Mount Jack Receptacle

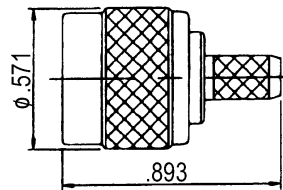


Part Number	Mounting Hole
587-071-0040Y	No. 071 A

• See page 83 for mounting hole layout.

REVERSE POLARITY TNC: Flexible Cable - Crimp Attachment

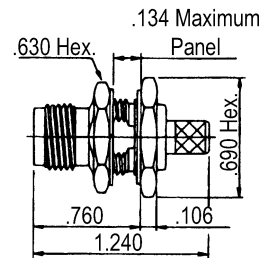
Straight Plug Crimp



Part Number	Cable
596-900-1160Y	RG-58,58A,141A
596-900-1161Y	RG-142

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

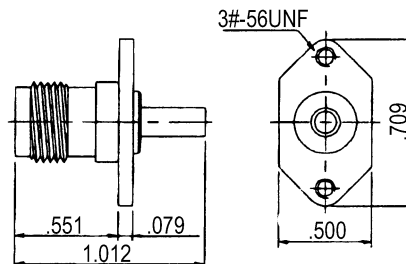
Straight Bulkhead Jack Crimp



Part Number	Cable	Mounting Hole
597-924-1160Y	RG-58,58A,141A	No. 024
597-924-1161Y	RG-142	No. 024

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

2 Hole Flange Jack Crimp

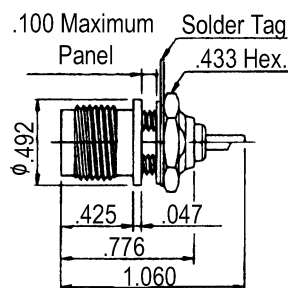


Part Number	Cable
597-089-0360Y	RG-178,196

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

Bulkhead Receptacle

Straight Bulkhead Jack Receptacle



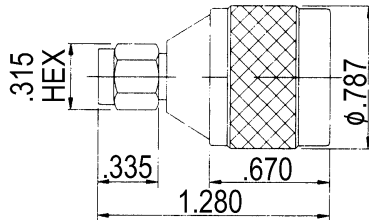
Part Number	Mounting Hole
597-029-0000Y	No. 029

• See page 83 for mounting hole layout.

Note: Dimensions shown in inches.

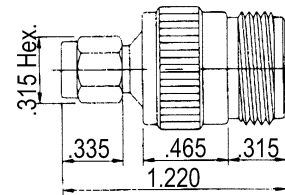
BETWEEN SERIES ADAPTERS

SMA Plug-N Plug



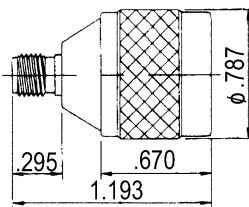
Part Number
350-600-0000Y

SMA Plug-N Jack



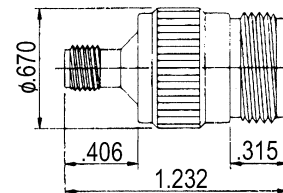
Part Number
350-601-0000Y

SMA Jack-N Plug



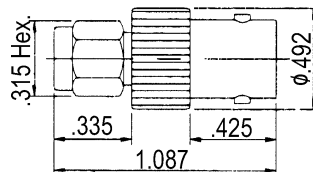
Part Number
351-600-0000Y

SMA Jack-N Jack



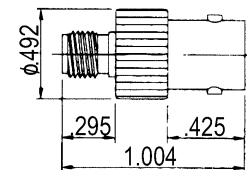
Part Number
351-601-0000Y

Sma Plug-BNC Jack



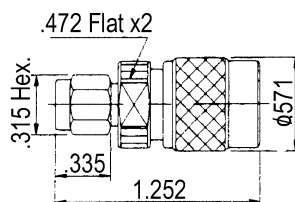
Part Number
350-581-0000Y

SMA Jack-BNC Jack



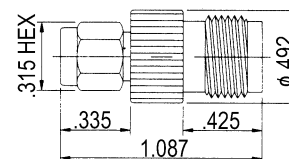
Part Number
351-581-0000Y

SMA Plug-TNC Plug



Part Number
350-590-0000Y

SMA Plug-TNC Jack



Part Number
350-591-0000Y

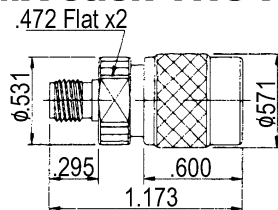
Note: Dimensions shown in inches.

Winchester/Retconn

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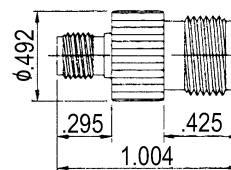
BETWEEN SERIES ADAPTERS

SMA Jack-TNC Plug



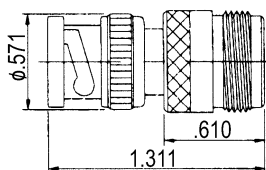
Part Number
351-590-0000Y

SMA Jack-TNC Jack



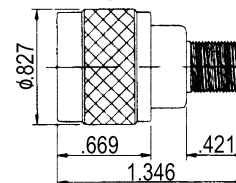
Part Number
351-591-0000Y

BNC Plug - N Jack



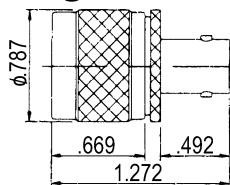
Part Number
580-601-0000Y

N Plug-F Jack



Part Number
061-600-0000Y

N Plug-BNC Jack

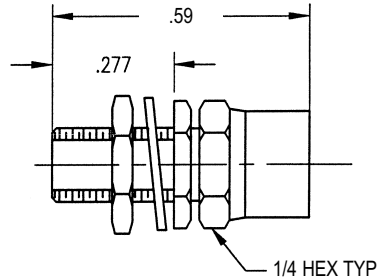


Part Number
581-600-0000Y

Note: Dimensions shown in inches.

CABLE TERMINATION: Crimp & Clamp, Flexible Cable

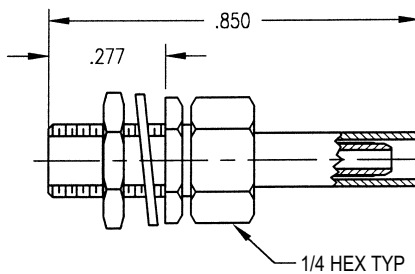
Straight Feed Thru, Clamp



Part Number	Cable	Mounting Hole
000-780-0360H	RG-178	No. 080
000-780-0630H	RG-316	No. 080
000-780-0631H	RG-316 double shielded	No. 080

- See page 101 for cable assembly procedures: 7-05
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

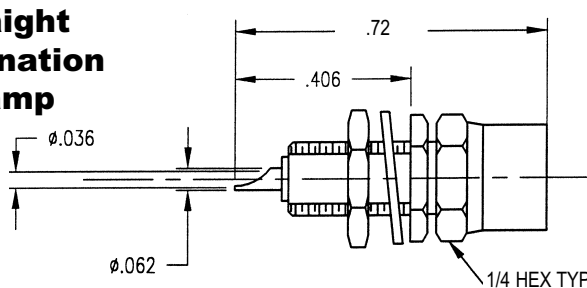
Straight Feed Thru, Crimp



Part Number	Cable	Mounting Hole
000-880-0360H	RG-178	No. 080
000-880-0630H	RG-316	No. 080
000-880-0631H	RG-316 double shielded	No. 080

- See page 105 for cable assembly procedures: 8-03
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

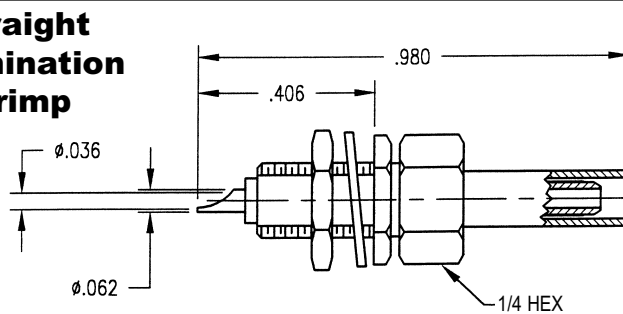
Straight Termination Clamp



Part Number	Cable	Mounting Hole
000-780-0360H	RG-178	No. 080
000-780-0630H	RG-316	No. 080
000-780-0631H	RG-316 double shielded	No. 080

- See page 101 for cable assembly procedures: 7-05
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

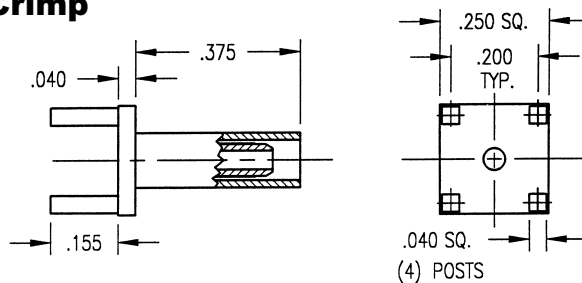
Straight Termination Crimp



Part Number	Cable	Mounting Hole
001-880-0360H	RG-178	No. 080
001-880-0630H	RG-316	No. 080
001-880-0631H	RG-316 double shielded	No. 080

- See page 106 for cable assembly procedures: 8-04
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Straight Feed Thru, Crimp



Part Number	Cable	Mounting Hole
000-860-0360H	RG-178	No. 060
000-860-0630H	RG-316	No. 060
000-860-0631H	RG-316 double shielded	No. 060

- See page 105 for cable assembly procedures: 8-03
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

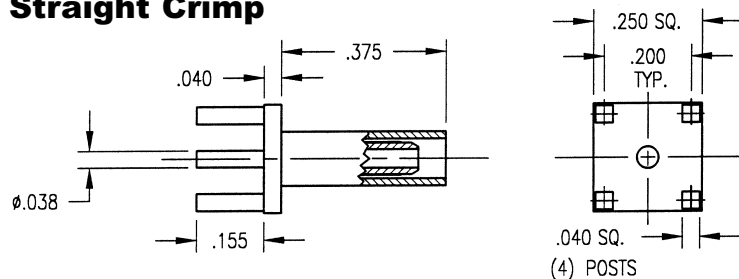
Note: Dimensions shown in inches.

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CABLE TERMINATIONS: Printed Circuit

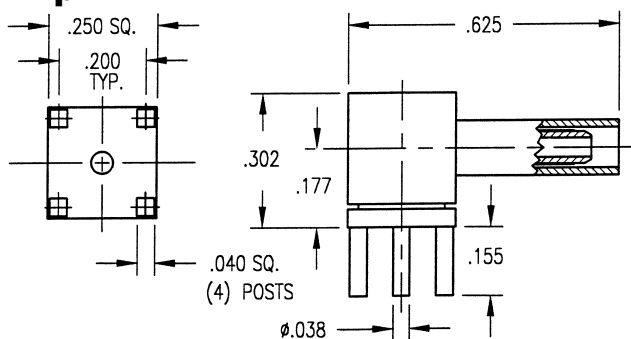
Straight Crimp



Part Number	Cable	Mounting Hole
001-860-0360H	RG-178	No. 060 B
001-860-0630H	RG-316	No. 060 B
001-860-0631H	RG-316 double shielded	No. 060 B

- See page 104 for cable assembly procedures: 8-04
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

Right Angle Crimp

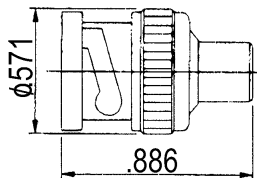


Part Number	Cable	Mounting Hole
003-860-0360H	RG-178	No. 060 B
003-860-0630H	RG-316	No. 060 B
003-860-0631H	RG-316 double shielded	No. 060 B

- See page 107 for cable assembly procedures: 8-05
- See page 83 for mounting hole layout.
- Part number shown is for gold plated.
- For nickel plate change suffix to "N".

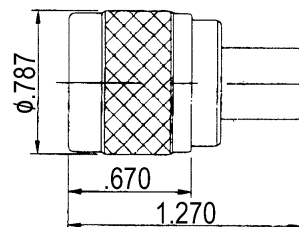
TERMINATORS & PROTECTIVE CAPS

BNC Plug Terminator



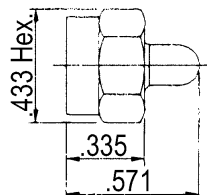
Part Number
580-100-0000Y (50 Ohm)
610-100-0000Y (75 Ohm)
640-100-0000Y (93 Ohm)

N Plug Terminator



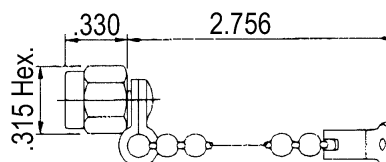
Part Number
600-100-0000Y (50 Ohm)

F Plug Terminator



Part Number
060-100-0000Y

Protective Cap For SMA Jack



Part Number
350-001-0000Y

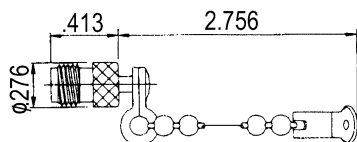
Note: Dimensions shown in inches.

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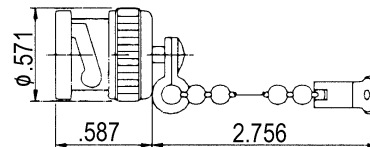
TERMINATORS & PROTECTIVE CAPS

Protective Cap For SMA Plug



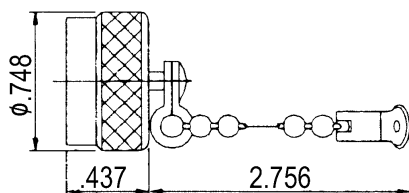
Part Number
351-001-0000Y

Protective Cap For BNC Jack



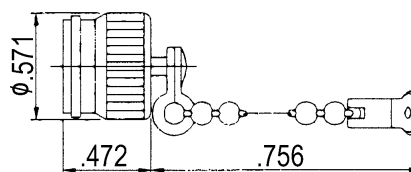
Part Number
580-001-0000Y

Protective Cap For N Jack



Part Number
600-001-0000Y

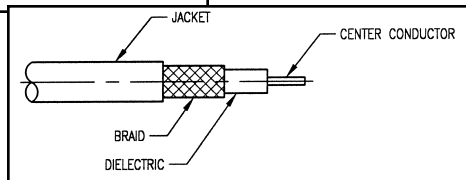
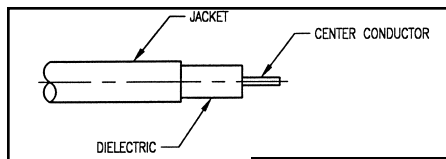
Protective Cap For TNC Jack



Part Number
590-001-0000Y

Note: Dimensions shown in inches.

CABLE REFERENCE TABLE



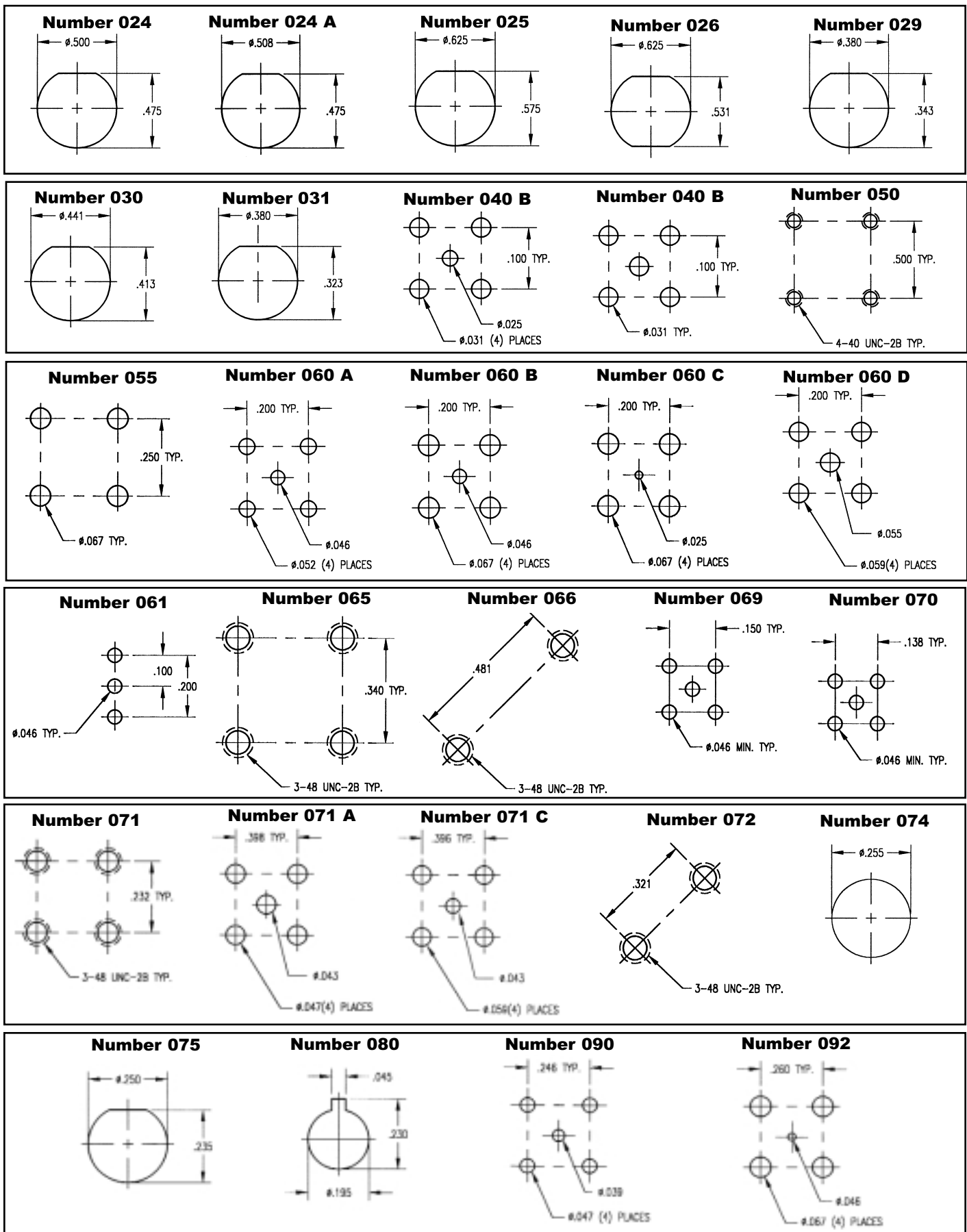
CABLE	CENTER CONDUCTOR	O.D. DIELECTRIC	O.D. JACKET	IMPEDANCE (Ohms)
RG-402	.0359	.1175	.141	50
RG-405	.0201	.0658	.086	50

CABLE	O.D. CENTER CONDUCTOR	O.D. DIELECTRIC	O.D. SHIELD	O.D. JACKET	IMPEDANCE (Ohms)
RG-8A/U	.0285	.285	-	.405	50
RG-9B/U	.0285	.280	-	.420	50
RG-55	.032	.116	.176	.176	50
RG-58	.038	.116	.150	.150	50
RG-58A	.0071	.116	-	.195	50
RG-59	.023	.146	.191	.191	75
RG-62	.025	.146	.191	.191	93
RG-62A	.0253	.146	-	.242	93
RG-71	.025	.146	.208	.208	93
RG-140	.025	.146	.176	.176	75
RG-141	.039	.116	.146	.146	50
RG-141A	.0390	.116	-	.190	50
RG-142	.039	.116	.171	.171	50
RG-174	.019	.060	.080	.080	50
RG-178	.012	.034	.054	.054	50
RG-179	.012	.060	.084	.084	75
RG-179B/U	.0040	.063	-	.100	75
RG-180	.012	.102	.124	.124	95
RG-187	.012	.060	.084	.084	75
RG-187A/U	.0040	.060	-	.11	75
RG-188	.020	.060	.081	.081	50
RG-188A/U	.0067	.060	-	.110	50
RG-195	.012	.102	.124	.124	95
RG-196	.012	.034	.054	.054	50
RG-210/U	.0253	.146	-	.242	93
RG-213/U	.0296	.285	-	.405	50
RG-214/U	.0296	.285	-	.425	50
RG-223	.032	.116	.176	.176	50
RG-303	.039	.116	.146	.146	50
RG-316	.020	.060	.081	.081	50
RG-316 DS	.020	.060	.102	.102	50

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MOUNTING HOLE LAYOUTS

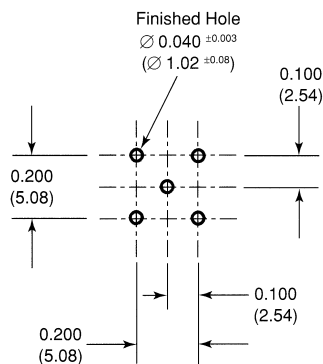


Winchester/Retconn

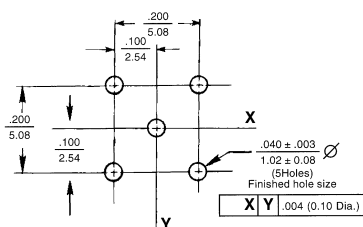
Note: Dimensions shown in inches.

MOUNTING HOLE LAYOUTS

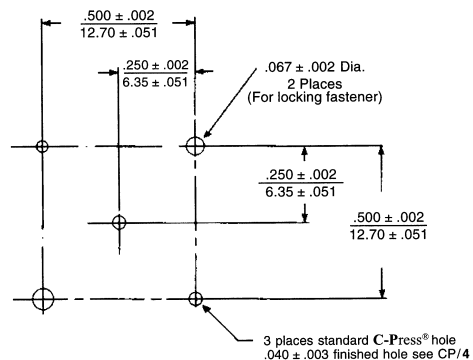
SMA C-Press®



SMB / SMC C-Press®

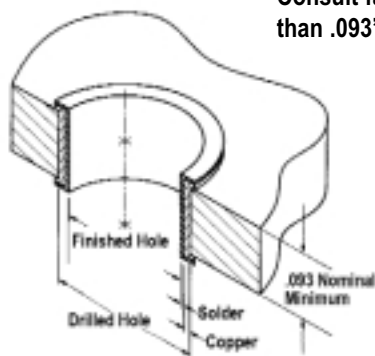


BNC C-Press®



Backpanel Hole Size and Plating Requirements

Consult factory for C-Press® applications for backpanels less than .093" thick and for bare copper plated through holes.



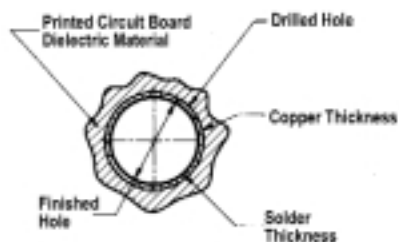
C-Press® Tools:

Connector Insertion Tool: 107-43184

Connector Removal Tool: 107-43185

Drive Screw Knockout Tool: 107-43186

Standard C-Press® - Compliant Pin



Dimensions ...

* Board Thickness: .093 (2.36) Nominal & Thicker
 Drilled Holes: .0453 $\pm$.0015 (1.151 $\pm$ 0.038)
 - .0010 - 0.025)

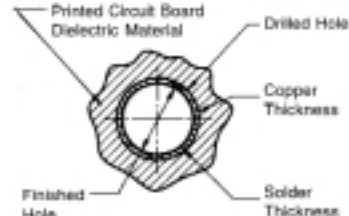
Copper Thickness: .0010 - .0030 (0.025 - 0.076)

* Solder Thickness: .0001 - .0008 (0.0025 - 0.0203)

Finished Hole: .040 $\pm$.003 (1.016 $\pm$ 0.076)

For full specification - request drawing number 27331

Small C-Press® - Compliant Pin



Dimensions ...

* Board Thickness: .093 (2.36) Nominal & Thicker

Drilled Holes: .037 - .039 (0.94 - 0.99)

Copper Thickness: .0010 - .0025 (0.025 - 0.063)

* Solder Thickness: .0001 - .0008 (0.0025 - 0.0203)

Finished Hole: .030 $\pm$.005 (0.76 - 0.89)

For full specification - request drawing number 27367

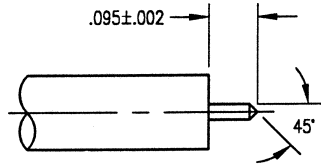
* Note: Consult Winchester Electronics / Retconn for C-Press® compliant pin applications in boards thinner than .093" thick and for use in bare copper plated through holes.

Note: Dimensions shown in inches.

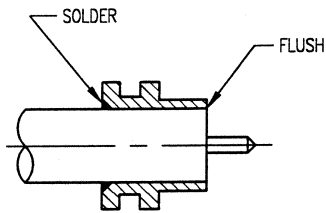
Winchester/Retconn

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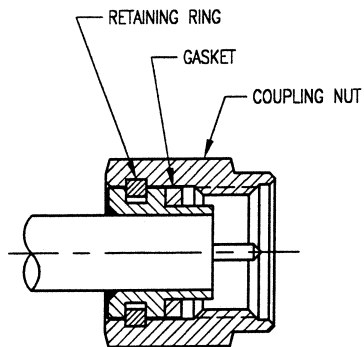
CABLE ASSEMBLY PROCEDURES: 5-01



1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR. CHAMFER CENTER CONDUCTOR AS SHOWN.



2. INSERT CABLE INTO BODY. BODY AND CABLE TO BE FLUSH AT INTERFACE. SOLDER CABLE INTO BODY. TRIM ANY EXCESS DIELECTRIC MATERIAL.

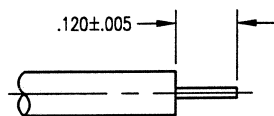


3. ASSEMBLE GASKET, RETAINING RING, AND COUPLING NUT.

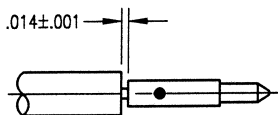
Note: Dimensions shown in inches.

Winchester/Retconn

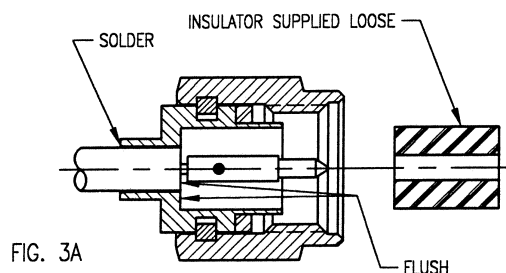
CABLE ASSEMBLY PROCEDURES: 5-02



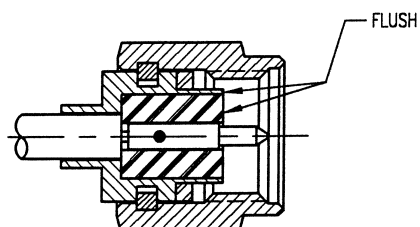
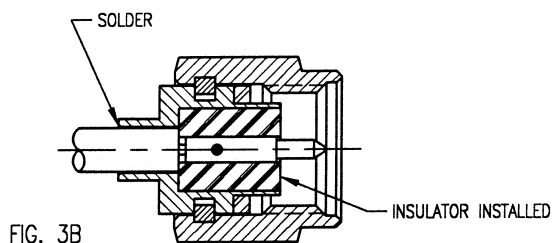
1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR.



2. SOLDER CONDUCTOR TO CENTER CONTACT. LEAVE GAP AS SHOWN. CLEAN.



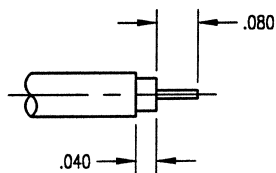
3. FOR CONNECTORS WITH INSULATORS SUPPLIED LOOSE:
INSERT CABLE INTO BODY UNTIL CABLE IS FLUSH WITH SHOULDER IN BODY. SOLDER CABLE INTO BODY. TRIM ANY EXCESS DIELECTRIC MATERIAL. CLEAN. REFER TO FIG. 3A.
FOR CONNECTORS WITH INSULATORS INSTALLED:
INSERT CABLE INTO BODY UNTIL IT BUTTS AGAINST INSULATOR. SOLDER CABLE INTO BODY. CLEAN. REFER TO FIG. 3B.



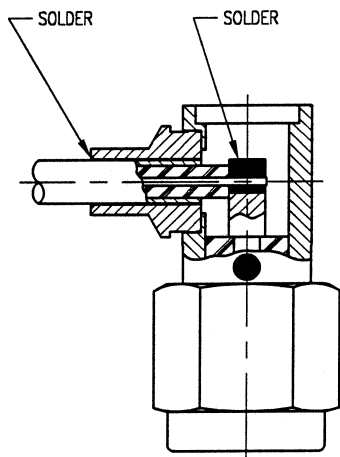
4. FOR CONNECTORS WITH INSULATORS SUPPLIED LOOSE:
PRESS IN INSULATOR FLUSH TO BODY.

Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 5-03

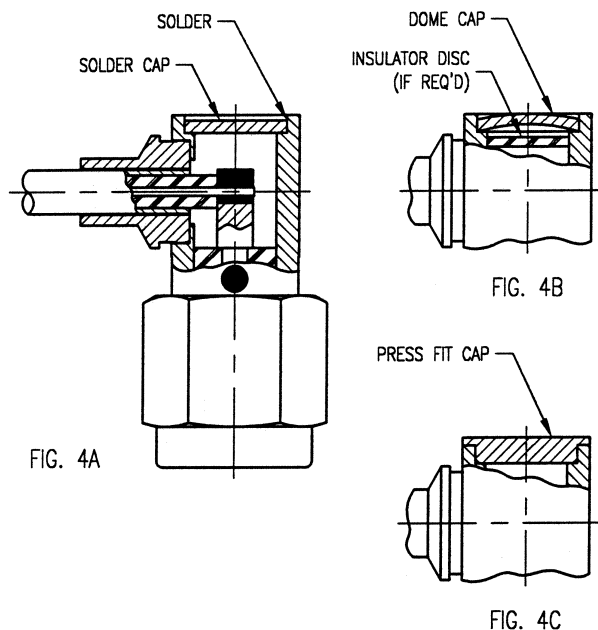


1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR.



2. INSERT CABLE INTO BODY. DIELECTRIC MUST BUTT AGAINST CENTER CONTACT, AND CENTER CONDUCTOR MUST ENTER SLOT IN CONTACT. SOLDER CABLE INTO BODY. CLEAN.

3. SOLDER CONDUCTOR INTO SLOT THROUGH REAR ACCESS HOLE. CLEAN.

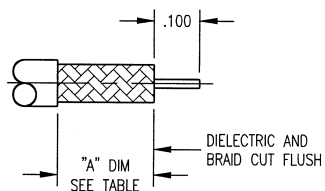


4. ASSEMBLE CAP INTO BODY:
FOR FLAT CAPS, SOLDER CAP INTO BODY AND CLEAN (SEE FIG. 4A)
FOR DOME CAPS, PLACE INSULATOR DISC (IF REQUIRED) INTO BODY. PLACE CAP IN BODY WITH DOME UP AND PRESS OR DIMPLE CAP. (SEE FIG. 4B)
FOR PRESS FIT CAPS, PRESS CAP INTO BODY. (SEE FIG. 4C)

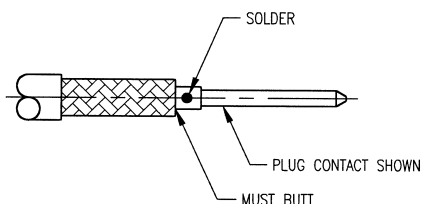
Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 5-04

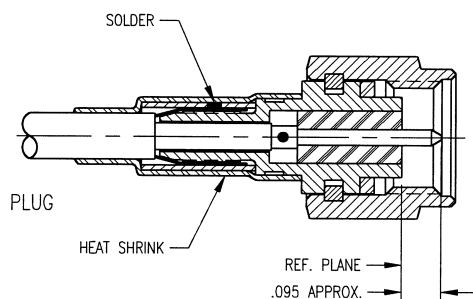
Part Numbers		"A" Dim
250-500-0630	251-500-0630	.215
250-500-1160	251-500-1160	.190



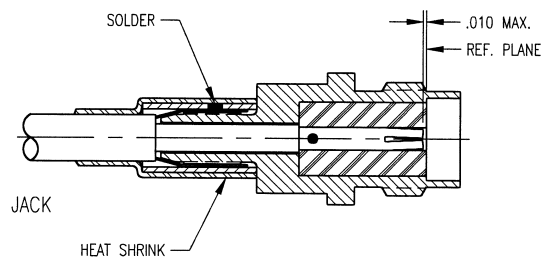
1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR.



2. SOLDER CONDUCTOR TO CENTER CONTACT. CONTACT MUST BUTT AGAINST DIELECTRIC. CLEAN.



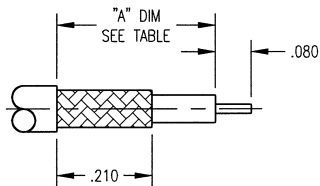
3. SLIDE FERRULE AND SHRINK SLEEVING OVER CABLE. FLAIR BRAID AND INSERT CABLE INTO BODY. WEDGE OF BODY MUST SLIDE UNDER BRAID. SLIDE FERRULE FORWARD OVER BRAID AND SOLDER BRAID TO BODY THROUGH HOLE IN FERRULE. CLEAN. SHRINK SLEEVING OVER FERRULE AND CABLE AS SHOWN.



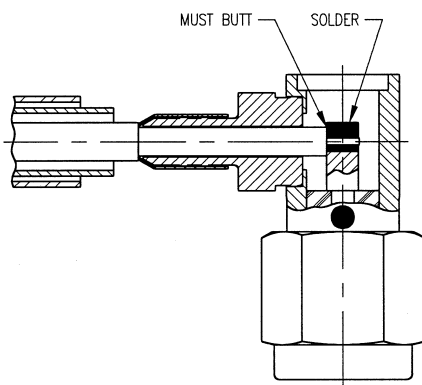
Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 5-05

Part Number	"A" Dim
252-500-0630	.350
252-500-1160	.375

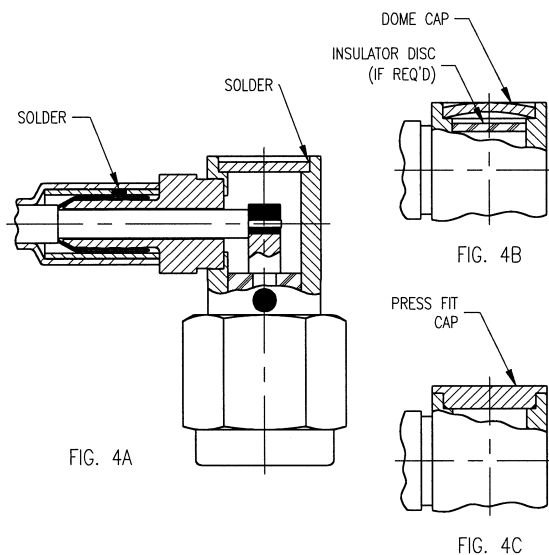


1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR.



2. SLIDE FERRULE AND SHRINK SLEEVING OVER. FLAIR BRAID AND INSERT CABLE INTO BODY. WEDGE MUST SLIDE UNDER BRAID AND CENTER CONDUCTOR MUST ENTER SLOT IN CONTACT. DIELECTRIC MUST BUTT AGAINST CONTACT. SLIDE FERRULE FORWARD AND SOLDER BRAID TO WEDGE THROUGH HOLE IN FERRULE. CLEAN.

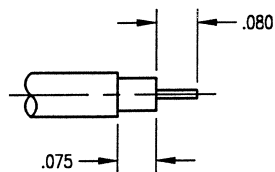
3. SOLDER CENTER CONDUCTOR INTO SLOT THROUGH REAR ACCESS HOLE. CLEAN.



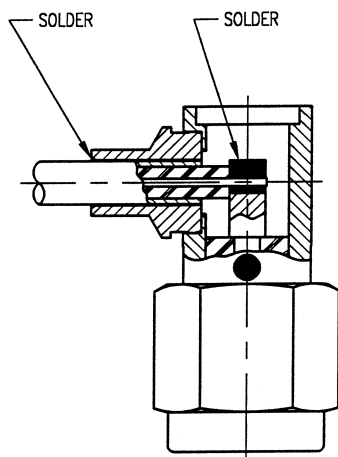
4. ASSEMBLE CAP INTO BODY:
FOR FLAT CAPS, SOLDER CAP INTO BODY AND CLEAN (SEE FIGURE 4A).
FOR DOME CAPS, PLACE INSULATOR DISC (IF REQUIRED) INTO BODY. PLACE CAP IN BODY WITH DOME UP AND PRESS OR DIMPLE CAP. (SEE FIGURE 4B).
FOR PRESS FIT CAPS, PRESS CAP INTO BODY, (SEE FIGURE 4C).

Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 5-06

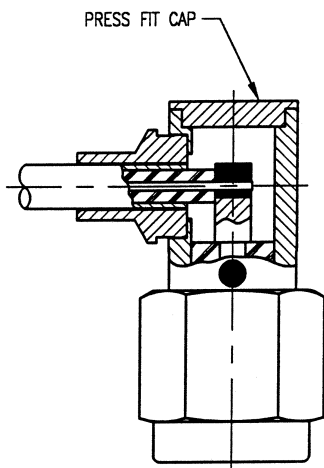


1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR.



2. INSERT CABLE INTO BODY. DIELECTRIC MUST BUTT AGAINST CENTER CONTACT, AND CENTER CONDUCTOR MUST ENTER SLOT IN CONTACT. SOLDER CABLE INTO BODY. CLEAN.

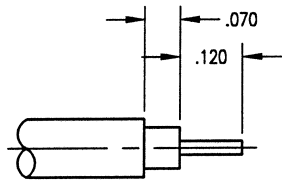
3. SOLDER CONDUCTOR INTO SLOT THROUGH REAR ACCESS HOLE. CLEAN.



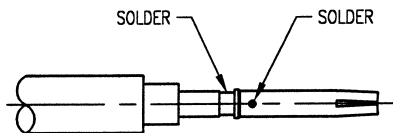
4. PRESS CAP INTO BODY.

Note: Dimensions shown in inches.

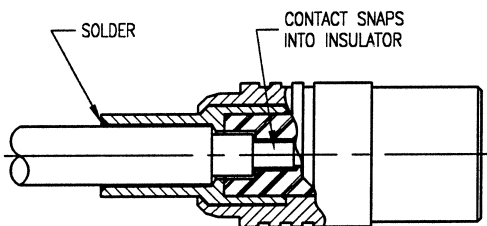
CABLE ASSEMBLY PROCEDURES: 5-11



1. TRIM CABLE TO DIMENSION SHOWN. DO NOT NICK CENTER CONDUCTOR.



2. SOLDER CONTACT TO CENTER CONDUCTOR. CLEAN.

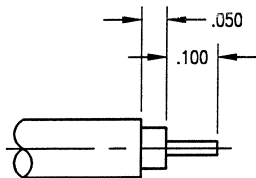


3. INSERT CENTER CONTACT INTO BODY UNTIL IT SNAPS INTO INSULATOR.

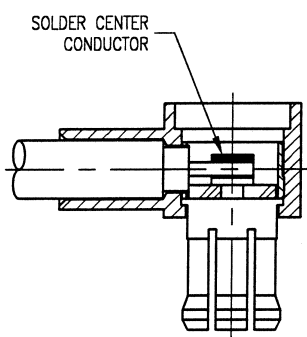
4. SOLDER CABLE JACKET TO BODY. CLEAN.

Note: Dimensions shown in inches.

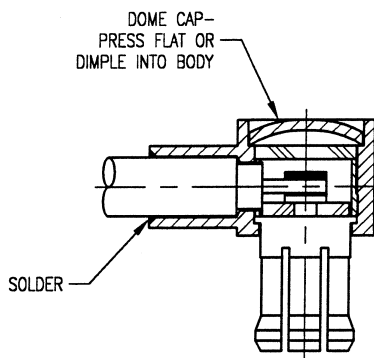
CABLE ASSEMBLY PROCEDURES: 5-12



1. TRIM CABLE TO DIMENSION SHOWN. DO NOT NICK CENTER CONDUCTOR.



2. INSERT CABLE INTO BODY UNTIL CABLE BOTTOMS IN BODY. CENTER CONDUCTOR MUST ENTER SLOT IN CONTACT. SOLDER CONTACT. CLEAN.

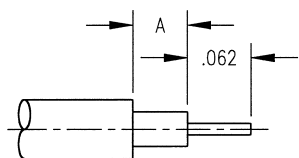


3. SOLDER CABLE JACKET INTO BODY. CLEAN.
4. PLACE INSULATOR INTO ACCESS HOLE OVER CONTACT.
5. PLACE DOME CAP INTO BODY AND PRESS FLAT OR DIMPLE.

Note: Dimensions shown in inches.

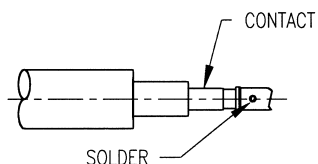
CABLE ASSEMBLY PROCEDURES: 5-17

Part Number	"A" Dim
470-500-0470	.040
470-500-0850	.050
471-500-0470	.040
471-500-0850	.050

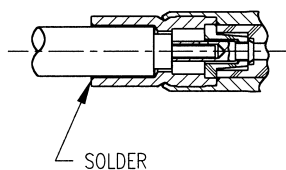


1. TRIM CABLE TO DIMENSION SHOWN. DO NOT NICK CENTER CONDUCTOR.

2. SOLDER CONTACT TO CENTER CONDUCTOR. CLEAN.



3. INSERT CENTER CONTACT INTO BODY UNTIL IT SNAPS INTO INSULATOR.



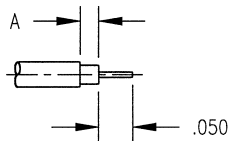
4. SOLDER CABLE JACKET TO BODY. ASSURE CABLE JACKET BOTTOMS IN CONNECTOR BODY WHILE SOLDERING. ALLOW TO COOL. CLEAN.

Note: Dimensions shown in inches.

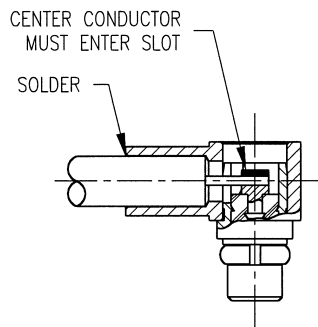
Winchester/Retconn

CABLE ASSEMBLY PROCEDURES: 5-18

Part Number	"A" Dim
472-500-0470	.040
472-500-0850	.050

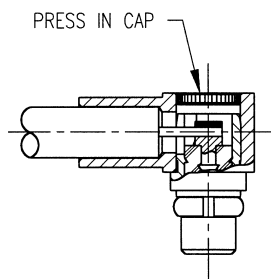


1. TRIM CABLE TO DIMENSION SHOWN. DO NOT NICK CENTER CONDUCTOR.



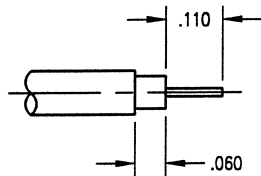
2. INSERT CABLE INTO BODY UNTIL IT BUTTS. CENTER CONDUCTOR MUST ENTER SLOT OF CONTACT.

3. SOLDER CABLE JACKET INTO BODY. ASSURE CABLE JACKET BOTTOMS IN CONNECTOR BODY WHILE SOLDERING. ALLOW TO COOL. CLEAN.

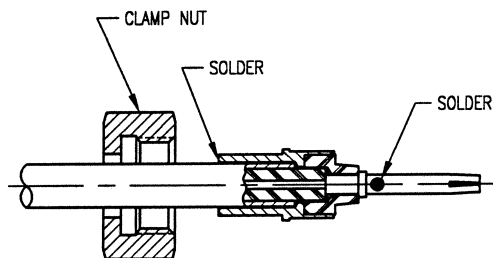


4. SOLDER CENTER CONDUCTOR OF CABLE INTO SLOT OF CONTACT. ALLOW TO COOL. CLEAN. PRESS CAP INTO BODY.

CABLE ASSEMBLY PROCEDURES: 6-01

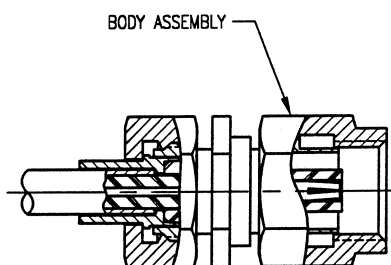


1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK THE CENTER CONDUCTOR.



2. SLIDE CLAMP NUT OVER CABLE. INSERT CABLE INTO SLEEVE ASSEMBLY. CENTER CONDUCTOR MUST PASS THROUGH HOLE IN INSULATOR. CABLE JACKET MUST BUTT AGAINST SHOULDER INSIDE SLEEVE. SOLDER CABLE INTO SLEEVE. CLEAN.

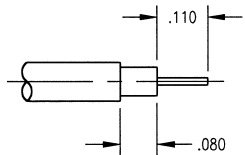
3. ASSEMBLE CENTER CONTACT TO CENTER CONDUCTOR BY INSERTING INTO HOLE OF INSULATOR. SOLDER CONDUCTOR THROUGH HOLE IN CONTACT. CLEAN.



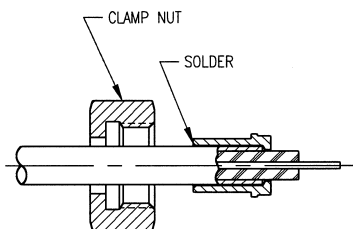
4. ASSEMBLE SLEEVE ASSEMBLY TO BODY. SLIDE CLAMP NUT FORWARD AND CLAMP SLEEVE TO BODY. TORQUE CLAMP NUT TO 8 IN.-LBS.

Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 6-02

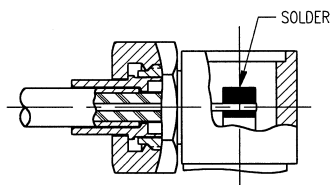


1. TRIM CABLE TO DIMENSION SHOWN. DO NOT NICK CENTER CONDUCTOR.



2. SLIDE CLAMP NUT OVER CABLE, INSERT CABLE INTO SLEEVE DIELECTRIC MUST PASS THROUGH HOLE IN SLEEVE. CABLE JACKET MUST BUTT AGAINST SHOULDER INSIDE SLEEVE. SOLDER CABLE INTO SLEEVE. CLEAN.

3. SOLDER CONDUCTOR INTO SLOT IN CONTACT THROUGH REAR ACCESS HOLE. CLEAN.

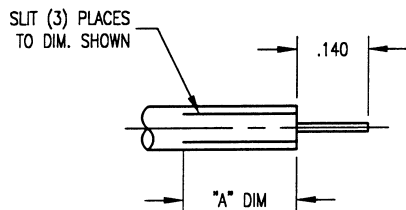


4. ASSEMBLE SLEEVE ASSEMBLY TO BODY. SLIDE CLAMP NUT FORWARD AND CLAMP SLEEVE TO BODY. TORQUE CLAMP NUT TO 8 IN.-LBS. PRESS INTO BODY.

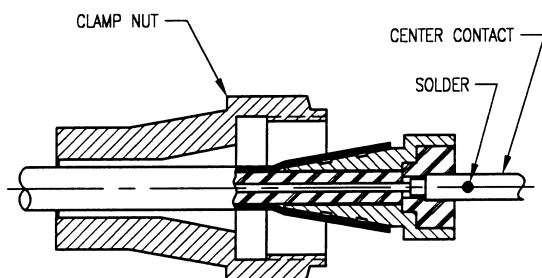
Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 7-01

Part Numbers	"A" Dim
350-700-0360	.220
350-700-0630	.220
350-700-1161	.160

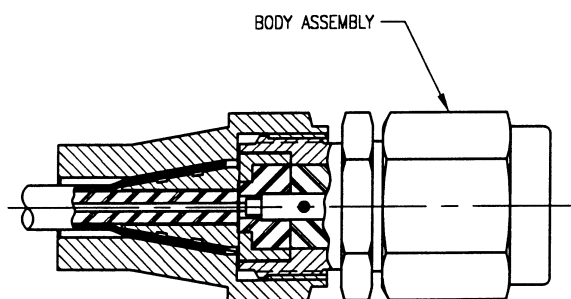


1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR. SLIT JACKET AS SHOWN.



2. SLIDE CLAMP NUT OVER CABLE. INSERT CABLE INTO CONE ASSEMBLY. CENTER CONDUCTOR MUST ENTER HOLE IN INSULATOR. DIELECTRIC MUST BUTT AGAINST SHOULDER INSIDE SLEEVE.

3. ASSEMBLE CENTER CONTACT TO CENTER CONDUCTOR BY INSERTING INTO HOLE OF INSULATOR. SOLDER CONDUCTOR THROUGH HOLE IN CONTACT. CLEAN.

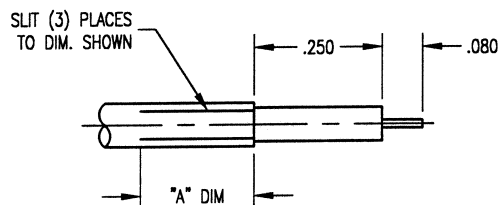


4. ASSEMBLE CONE ASSEMBLY TO BODY. SLIDE CLAMP NUT FORWARD AND CLAMP CONE TO BODY. TORQUE CLAMP NUT TO 10 IN.-LBS.

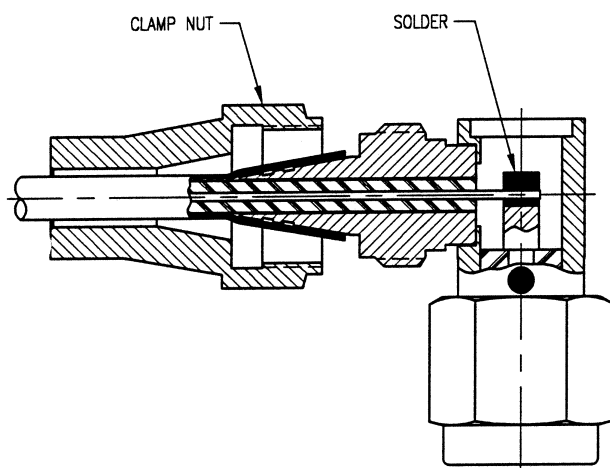
Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 7-02

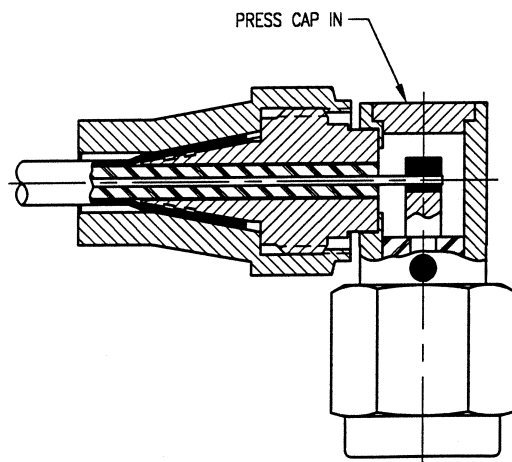
Part Numbers	"A" Dim
352-700-0360	.220
352-700-0630	.220
352-700-1161	.160



1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR. SLIT JACKET AS SHOWN.



2. SLIDE CLAMP NUT OVER CABLE. INSERT CABLE INTO CONE ASSEMBLY. CENTER CONDUCTOR MUST ENTER HOLE IN INSULATOR. DIELECTRIC MUST BUTT AGAINST SHOULDER INSIDE SLEEVE.

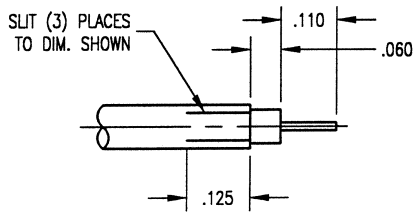


3. ASSEMBLE CENTER CONTACT TO CENTER CONDUCTOR BY INSERTING INTO HOLE OF INSULATOR. SOLDER CONDUCTOR THROUGH HOLE IN CONTACT. CLEAN.

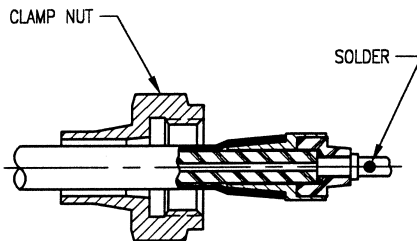
4. ASSEMBLE CONE ASSEMBLY TO BODY. SLIDE CLAMP NUT FORWARD AND CLAMP CONE TO BODY. TORQUE CLAMP NUT TO 10 IN.-LBS.

Note: Dimensions shown in inches.

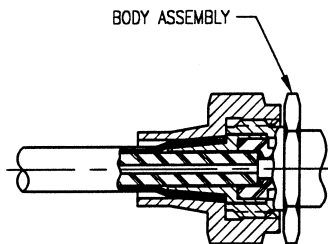
CABLE ASSEMBLY PROCEDURES: 7-03



1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR. SLIT JACKET AS SHOWN.



2. SLIDE CLAMP NUT OVER CABLE. INSERT CABLE INTO CONE ASSEMBLY. CENTER CONDUCTOR MUST ENTER HOLE IN INSULATOR. DIELECTRIC MUST BUTT AGAINST SHOULDER INSIDE SLEEVE.

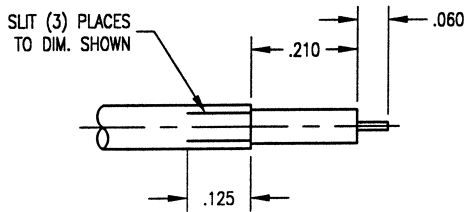


3. ASSEMBLE CENTER CONTACT TO CENTER CONDUCTOR BY INSERTING INTO HOLE OF INSULATOR. SOLDER CONDUCTOR THROUGH HOLE IN CONTACT. CLEAN.

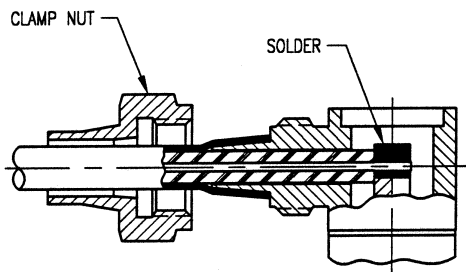
4. ASSEMBLE CONE ASSEMBLY TO BODY. SLIDE CLAMP NUT FORWARD AND CLAMP CONE TO BODY. TORQUE CLAMP NUT TO 8 IN.-LBS.

Note: Dimensions shown in inches.

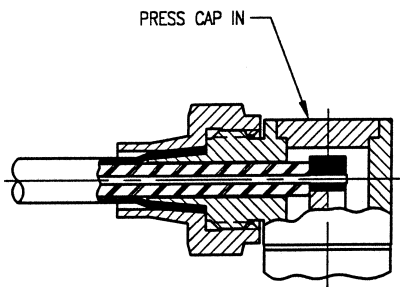
CABLE ASSEMBLY PROCEDURES: 7-04



1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR. SLIT JACKET AS SHOWN.



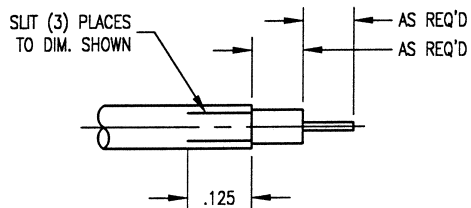
2. SLIDE CLAMP NUT OVER CABLE. INSERT CABLE INTO CONE OF BODY. CENTER CONDUCTOR MUST ENTER SLOT IN CONTACT. DIELECTRIC MUST BUTT AGAINST CONTACT. SLIDE NUT FORWARD AND CLAMP BRAID TO BODY WITH CLAMP NUT. TORQUE TO 10 IN.-LBS.



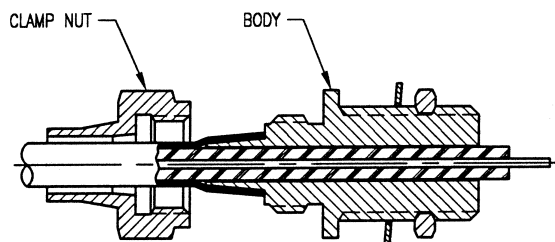
4. PRESS CAP INTO BODY.
NOTE: WHEN PRESSING CAP INTO BODY, DO NOT SEAT ON COUPLING NUT.

Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 7-05



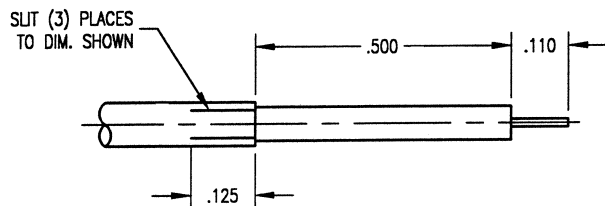
1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR. SLIT JACKET AS SHOWN.



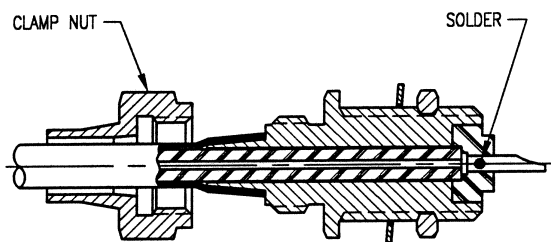
2. SLIDE CLAMP NUT OVER CABLE. INSERT CABLE INTO BODY. CLAMP BRAID TO BODY WITH CLAMP NUT. TORQUE TO 8 IN.-LBS.

Note: Dimensions shown in inches.

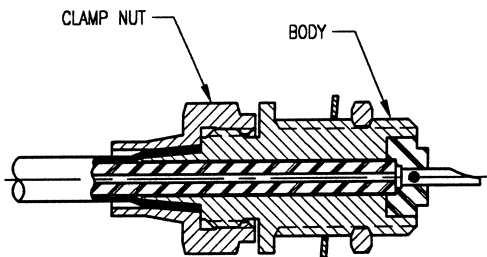
CABLE ASSEMBLY PROCEDURES: 7-06



1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR. SLIT JACKET AS SHOWN.



2. SOLDER CENTER CONTACT TO CENTER CONDUCTOR THROUGH HOLE IN CONTACT. CONTACT SHOULDER MUST BUTT AGAINST DIELECTRIC OF CABLE. CLEAN.

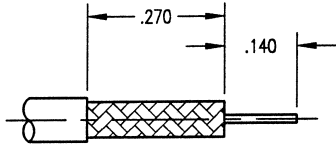


3. SLIDE CLAMP NUT OVER CABLE. INSERT CABLE INTO BODY. CENTER CONTACT MUST ENTER HOLE IN INSULATOR. DIELECTRIC OF CABLE MUST BUTT AGAINST INSULATOR.

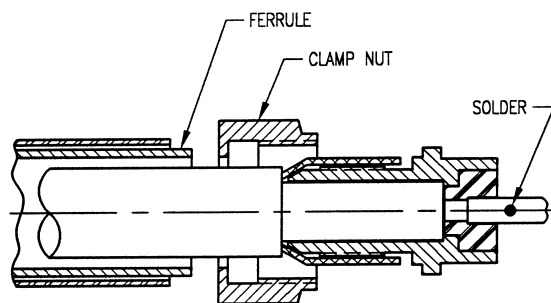
4. CLAMP CABLE TO BODY WITH CLAMP NUT. TORQUE TO 8 IN.-LBS.

Note: Dimensions shown in inches.

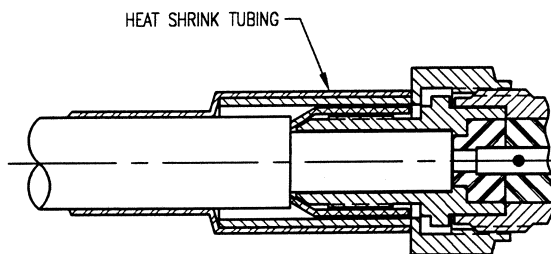
CABLE ASSEMBLY PROCEDURES: 8-01



1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR.



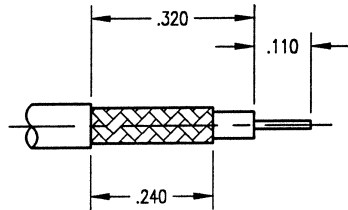
2. SLIDE SHRINK TUBING, FERRULE, AND CLAMP NUT OVER CABLE. INSERT CABLE INTO WEDGE ASSEMBLY. CENTER CONDUCTOR MUST ENTER AND PROTRUDE THROUGH HOLE IN INSULATOR. DIELECTRIC OF CABLE MUST BUTT AGAINST INSULATOR IN WEDGE. ASSEMBLE CENTER CONTACT TO WEDGE ASSEMBLY BY INSERTING CONTACT INTO HOLE IN INSULATOR. SOLDER CONTACT TO CENTER CONDUCTOR THROUGH HOLE IN CONTACT. CLEAN.



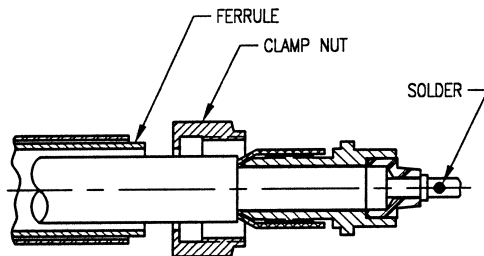
3. ASSEMBLE WEDGE ASSEMBLY TO BODY. SLIDE CLAMP NUT FORWARD AND CLAMP WEDGE TO BODY. TORQUE CLAMP NUT TP 10 IN.-LBS. SLIDE FERRULE FORWARD AND CRIMP. SLIDE SHRINK TUBING FORWARD AND HEAT SHRINK.

Note: Dimensions shown in inches.

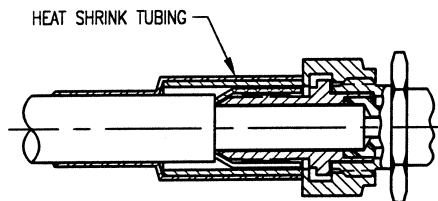
CABLE ASSEMBLY PROCEDURES: 8-02



1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR.



2. SLIDE SHRINK TUBING, FERRULE, AND CLAMP NUT OVER CABLE. INSERT CABLE INTO WEDGE ASSEMBLY. CENTER CONDUCTOR MUST ENTER AND PROTRUDE THROUGH HOLE IN INSULATOR. DIELECTRIC OF CABLE MUST BUTT AGAINST INSULATOR IN WEDGE. ASSEMBLE CENTER CONTACT TO WEDGE ASSEMBLY BY INSERTING CONTACT INTO HOLE IN INSULATOR. SOLDER CONTACT TO CENTER CONDUCTOR THROUGH HOLE IN CONTACT. CLEAN.

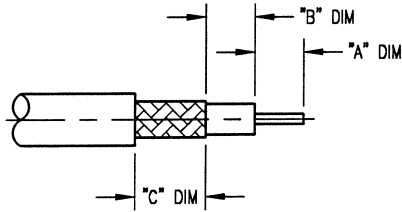


3. ASSEMBLE WEDGE ASSEMBLY TO BODY. SLIDE CLAMP NUT FORWARD AND CLAMP WEDGE TO BODY. TORQUE CLAMP NUT TP 8 IN.-LBS. SLIDE FERRULE FORWARD AND CRIMP. SLIDE SHRINK TUBING FORWARD AND HEAT SHRINK.

Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 8-03

PART NUMBER	"A" DIM	"B" DIM	"C" DIM	FIGURE
000-880-SERIES	AS REQ'D	AS REQ'D	.240	1
000-860-SERIES	.155	.080	.240	2



1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR.

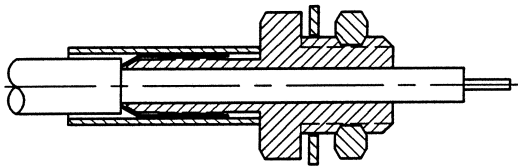


FIGURE 1

2. SLIDE FERRULE OVER CABLE. INSERT CABLE INTO BODY. SLIDE FERRULE FORWARD AND CRIMP.

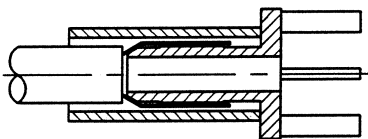
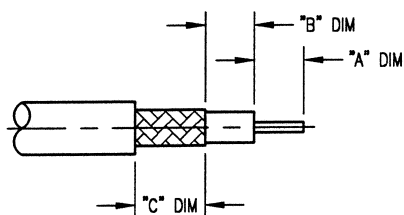


FIGURE 2

Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 8-04

PART NUMBER	"A" DIM	"B" DIM	"C" DIM	FIGURE
001-880-SERIES	.110	.375	.240	1
001-860-SERIES	.110	.080	.240	2



1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR.

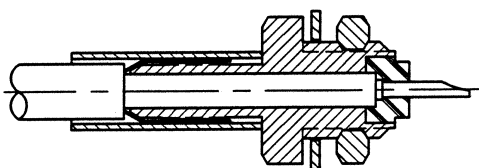


FIGURE 1

2. SLIDE FERRULE OVER CABLE. SOLDER CONTACT TO CENTER CONDUCTOR THROUGH HOLE IN CONTACT. CONTACT SHOULDER MUST BUTT AGAINST DIELECTRIC OF CABLE. INSERT CABLE ASSEMBLY INTO BODY. CENTER CONTACT MUST ENTER HOLE IN INSULATOR. DIELECTRIC MUST BUTT AGAINST INSULATOR IN WEDGE. SLIDE FERRULE FORWARD AND CRIMP.

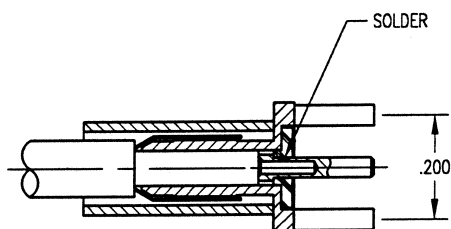
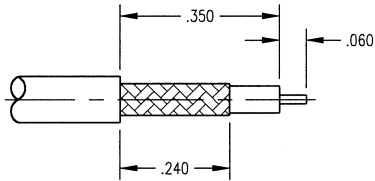


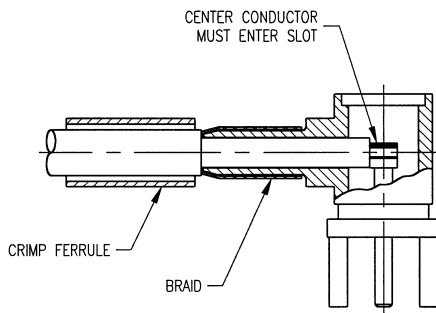
FIGURE 2

Note: Dimensions shown in inches.

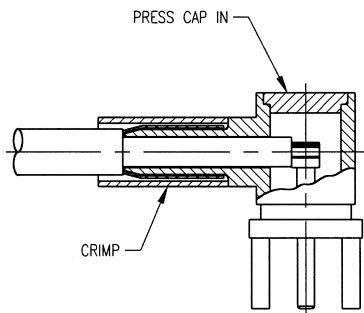
CABLE ASSEMBLY PROCEDURES: 8-05



1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR.



2. SLIDE FERRULE OVER CABLE, INSERT CABLE INTO BODY. CENTER CONDUCTOR MUST ENTER SLOT IN CONTACT. DIELECTRIC OF CABLE MUST BUTT AGAINST CONTACT. SOLDER CENTER CONDUCTOR INTO SLOT THROUGH ACCESS HOLE. CLEAN.

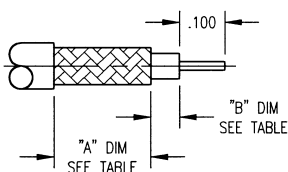


3. SLIDE FERRULE FORWARD OVER BRAID AND CRIMP. PRESS IN CAP.

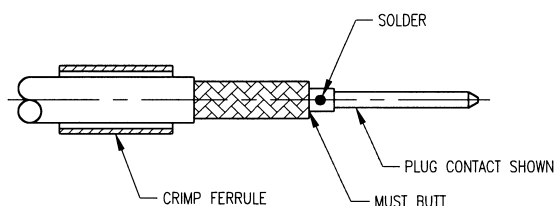
Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 9-04

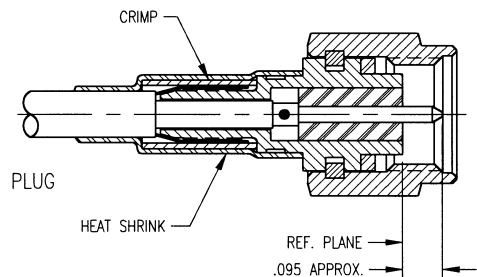
Part Number	"A" Dim	"B" Dim
250-900-0630	.250	.000
250-900-1160	.190	.000
350-900-0630	.250	.000
350-900-1160	.190	.000
351-900-0630	.250	.060
351-900-1160	.190	.060
351-975-0630	.250	.110
351-975-1160	.190	.110



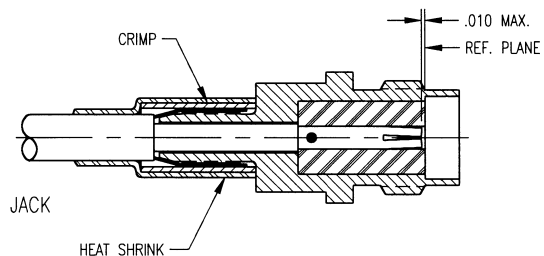
1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR.



2. SLIDE FERRULE OVER CABLE. SOLDER CENTER CONTACT TO CENTER CONDUCTOR THROUGH HOLE IN CONTACT. CONTACT MUST BUTT AGAINST DIELECTRIC. CLEAN.



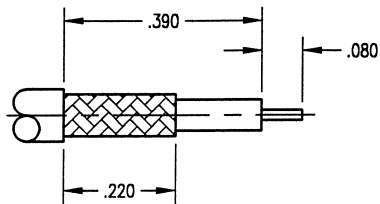
3. SLIDE FERRULE FORWARD OVER BRAID AND CRIMP. SHRINK SLEEVING OVER FERRULE AND CABLE.



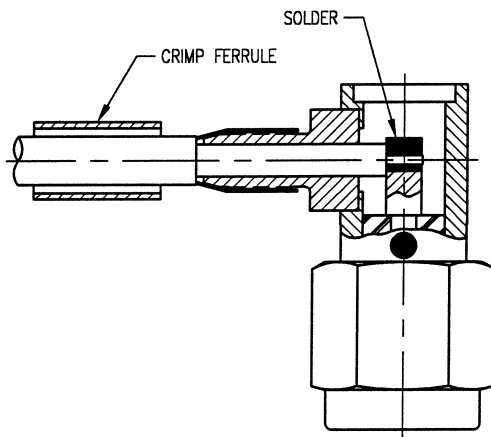
Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 9-05

Part Number	Figure
252-900-0630	3B
252-900-1160	3B
352-900-0630	3A
352-900-1160	3A



1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR.



2. SLIDE FERRULE OVER CABLE. INSERT CABLE INTO WEDGE. CENTER CONDUCTOR MUST ENTER SLOT IN CENTER CONTACT. DIELECTRIC OF CABLE MUST BUTT AGAINST CONTACT. SOLDER CENTER CONDUCTOR INTO SLOT IN CONTACT. CLEAN.

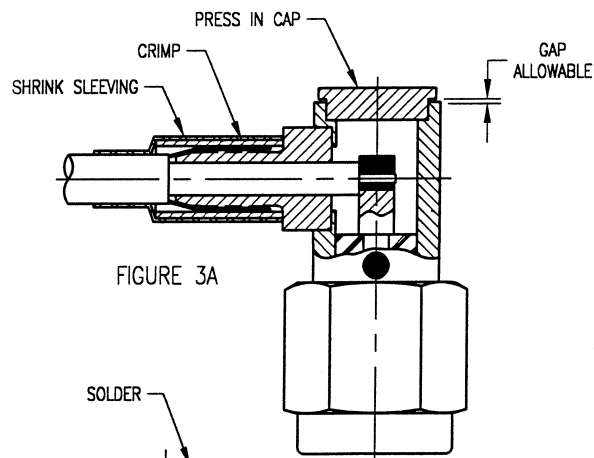


FIGURE 3A

3. SLIDE FERRULE FORWARD AND CRIMP. PRESS OR SOLDER CAP INTO BODY PER FIG. 1 OR 2. NOTE: WHEN PRESSING IN CAP, DO NOT SEAT ON COUPLING NUT.

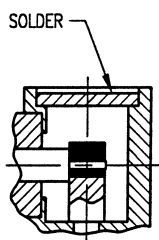
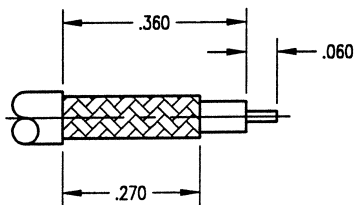


FIGURE 3B

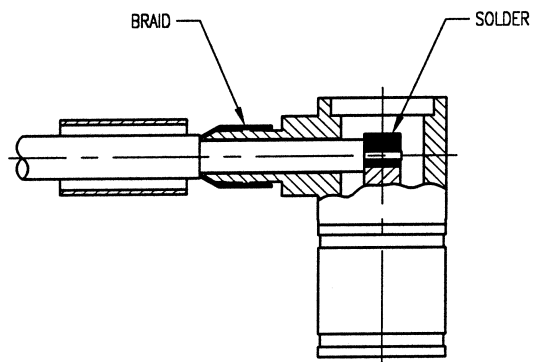
4. SHRINK SLEEVING OVER FERRULE AND CABLE AS SHOWN.

Note: Dimensions shown in inches.

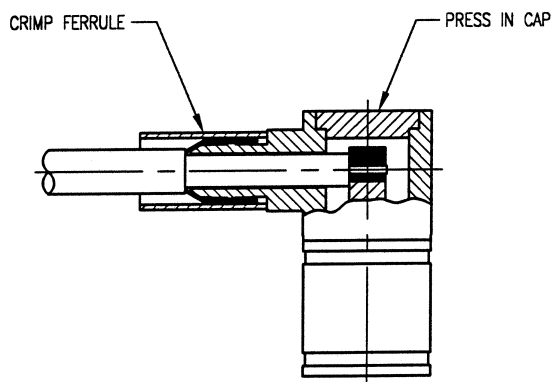
CABLE ASSEMBLY PROCEDURES: 9-06



1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR.



2. SLIDE FERRULE OVER CABLE. INSERT CABLE INTO WEDGE. CENTER CONDUCTOR MUST ENTER SLOT IN CENTER CONTACT. DIELECTRIC OF CABLE MUST BUTT AGAINST CONTACT. SOLDER CENTER CONDUCTOR INTO SLOT IN CONTACT. CLEAN.

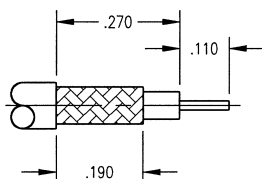


3. SLIDE FERRULE FORWARD AND CRIMP. PRESS CAP INTO BODY.

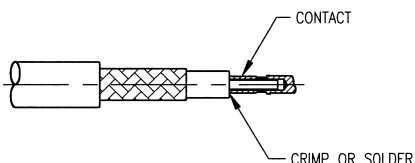
Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 9-08

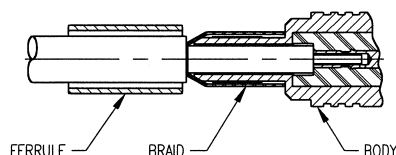
Part Number	Crimp Tool (Center Contact)	Positioner	Tool Setting
450-900-Series	T 2400	P 0632	4
451-900-Series	T 2400	P 0632	4
451-980-Series	T 2400	P 0632	4



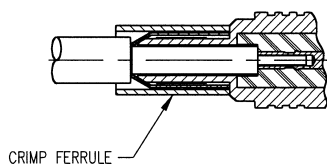
1. TRIM CABLE TO DIMENSION SHOWN. DO NOT NICK BRAID OR CENTER CONDUCTOR..



2. SLIDE FERRULE OVER BRAID. PLACE CENTER CONTACT INTO POSITIONER OF CRIMP TOOL WITH POSITIONER P 0632, SETTING 4. INSERT CABLE CENTER CONDUCTOR INTO CONTACT AND CRIMP DIELECTRIC OF CABLE MUST BUTT AGAINST SHOULDER OF CONTACT.
(NOTE: CENTER CONTACT MAY BE SOLDERED TO CENTER CONDUCTOR).



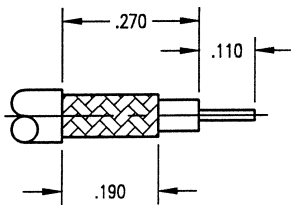
3. FLAIR BRAID. INSERT CENTER CONTACT INTO BODY UNTIL IT SNAPS INTO INSULATOR. BRAID WILL SIT OVER BARREL PORTION OF BODY.



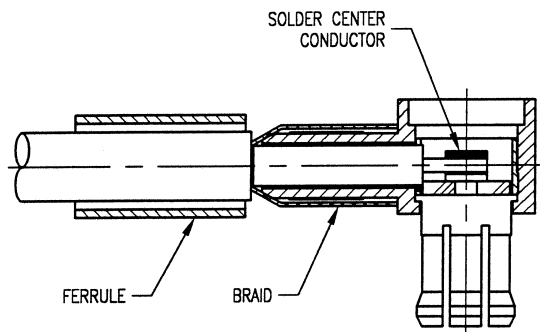
4. SLIDE FERRULE FORWARD OVER BRAID AND CRIMP WITH APPROPRIATE HEX CRIMP DIE.

Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 9-09

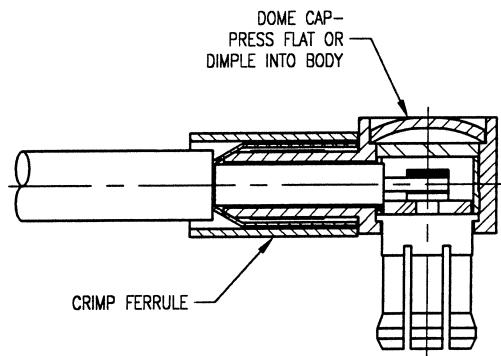


1. TRIM CABLE TO DIMENSIONS SHOWN. DO NOT NICK BRAIDS OR CENTER CONDUCTOR.



2. SLIDE FERRULE OVER BRAID. FLAIR BRAID AND INSERT INTO BODY. CENTER CONDUCTOR MUST ENTER SLOT IN CONTACT. SOLDER CONTACT. CLEAN.

3. SLIDE FERRULE FORWARD OVER BRAID AND CRIMP WITH APPROPRIATE HEX CRIMP DIE.



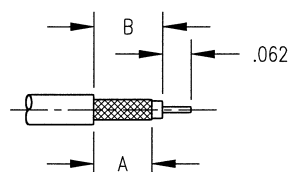
4. PLACE INSULATOR INTO ACCESS HOLE OVER CENTER CONTACT.

5. PLACE DOME CAP INTO BODY AND PRESS FLAT OR DIMPLE.

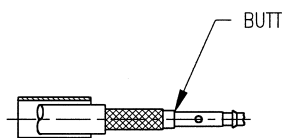
Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 9-17

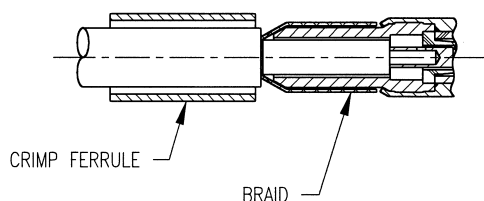
PART NUMBER		A	B	FERRULE HEX SIZE
470-900-0360	471-900-0360	.190	.225	.105
470-900-0630	471-900-0630	.190	.225	.128



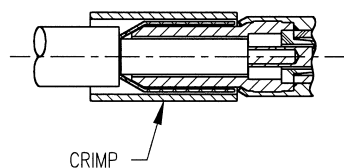
1. TRIM CABLE TO DIMENSION SHOWN. DO NOT NICK CENTER CONDUCTOR.



2. SLIDE FERRULE OVER JACKET. INSERT CENTER CONDUCTOR OF CABLE INTO CONTACT. DIELECTRIC OF CABLE MUST BUTT AGAINST CONTACT. SOLDER CONTACT TO CENTER CONDUCTOR. CLEAN.



3. FLAIR BRAID. INSERT CENTER CONTACT INTO BODY UNTIL IT SNAPS INTO INSULATOR.

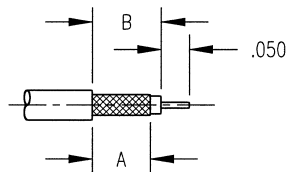


4. SLIDE FERRULE OVER BRAID UP TO THE SHOULDER OF BODY. CRIMP FERRULE TO RETAIN BRAID. SEE TABLE FOR HEX SIZES.

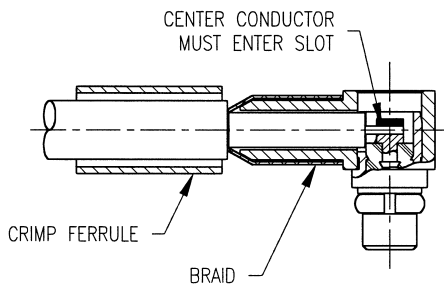
Note: Dimensions shown in inches.

CABLE ASSEMBLY PROCEDURES: 9-18

PART NUMBER	A	B	FERRULE HEX SIZE
472-900-0360	.190	.225	.105
472-900-0630	.190	.225	.128

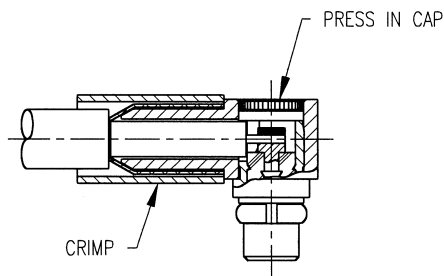


1. TRIM CABLE TO DIMENSIONS SHOWN. TIN THE CENTER CONDUCTOR.



2. SLIDE FERRULE OVER JACKET. FLAIR BRAID. INSERT CABLE INTO BODY. CENTER CONDUCTOR MUST ENTER SLOT IN CONTACT. SOLDER CONTACT. CLEAN.

3. SLIDE FERRULE OVER BRAID UP TO THE SHOULDER OF BODY. CRIMP FERRULE TO RETAIN BRAID. SEE TABLE FOR HEX SIZES.



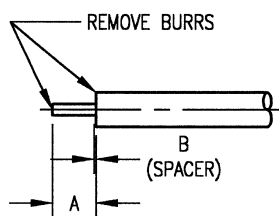
4. PRESS CAP INTO BODY.

Note: Dimensions shown in inches.

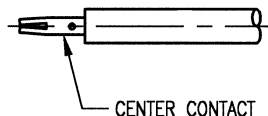
CABLE ASSEMBLY PROCEDURES: CM-01

For Semi-Rigid Cable, Direct Solder

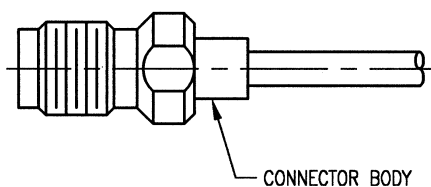
PART NUMBER	"A" DIM	"B" DIM
256-500-SERIES	.098	.010
257-575-SERIES	.110	.010
600-500-SERIES	.138	.028
601-500-SERIES	.118	.018
601-526-SERIES	.157	.018



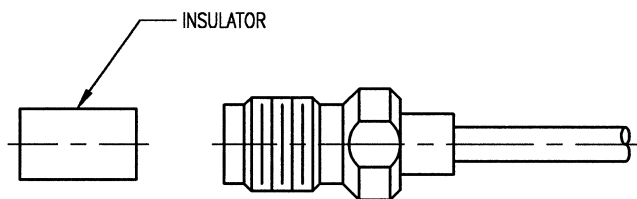
1. PREPARATION OF CABLE:
 - a. STRIP CABLE TO DIMENSION SHOWN.
 - b. REMOVE ANY BURRS FROM JACKET AND CENTER CONDUCTOR.



2. SOLDER CENTER CONTACT TO CABLE CENTER CONDUCTOR:
 - a. SOLDER CENTER CONTACT TO CABLE CENTER CONDUCTOR.
 - b. REMOVE ALL EXCESS SOLDER.



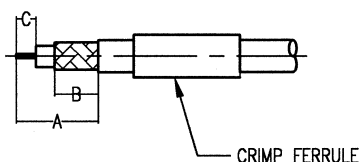
3. ATTACH CABLE TO CONNECTOR BODY:
 - a. ASSEMBLE CABLE AND CONTACT INTO CONNECTOR BODY.
 - b. SOFT SOLDER CABLE JACKET ALL AROUND OVER CONNECTOR BODY.



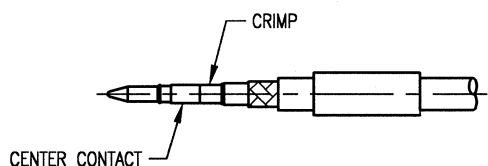
4. FINAL ASSEMBLY:
 - a. PRESS INSULATOR INTO BODY UNTIL IT STOPS.

For Crimp Type Connectors

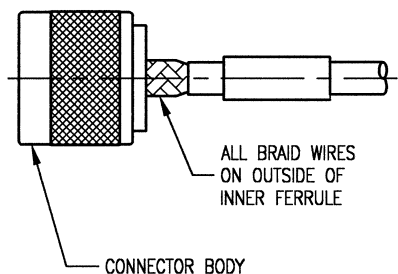
PART NUMBER	"A" DIM	"B" DIM	"C" DIM
256-900-SERIES	.472	.295	.087
257-900-SERIES	.512	.295	.110
257-975-SERIES	.492	.295	.110
586-900-SERIES	.551	.307	.126
587-929-SERIES	.630	.315	.138
590-900-SERIES	.610	.315	.157
591-900-SERIES	.650	.295	.157
591-924-SERIES	.650	.295	.157
596-900-SERIES	.551	.315	.126
597-924-SERIES	.630	.315	.138
600-900-SERIES	.630	.295	.157
601-900-SERIES	.590	.295	.138
620-900-SERIES	.433	.276	.08
621-930-SERIES	.610	.276	.138
621-900-SERIES	.531	.276	.157



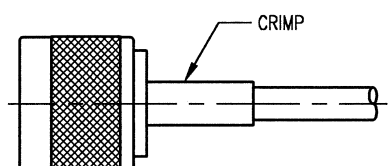
1. PREPARATION OF CABLE:
 - a. SLIDE CRIMP FERRULE ONTO CABLE.
 - b. STRIP CABLE TO DIMENSIONS SHOWN.



2. CRIMP CENTER CONTACT TO CABLE CENTER CONDUCTOR:
 - a. INSERT CABLE CENTER CONDUCTOR INTO CENTER CONTACT UNTIL IT BUTTS AGAINST CABLE DIELECTRIC.
 - b. CRIMP (OR SOLDER) CENTER CONTACT.



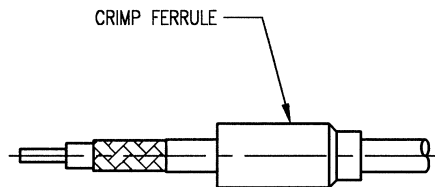
3. ATTACH CABLE TO CONNECTOR BODY:
 - a. INSERT CABLE ASSEMBLY INTO REAR BODY, WITH ALL BRAID WIRES ON OUTSIDE OF INNER FERRULE.
 - b. PUSH CABLE ASSEMBLY FORWARD UNTIL CONTACT SNAPS INTO PLACE IN INSULATOR.



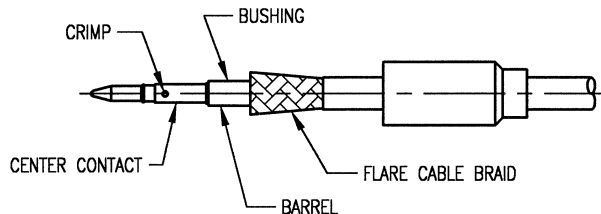
4. FINAL ASSEMBLY:
 - a. SLIDE CRIMP FERRULE FORWARD UNTIL FLUSH WITH CONNECTOR.

CABLE ASSEMBLY PROCEDURES: CM-04

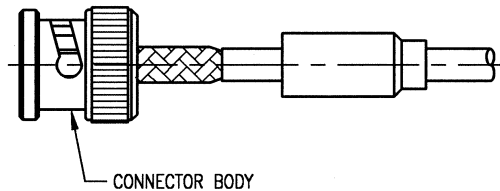
For Crimp Type Connectors



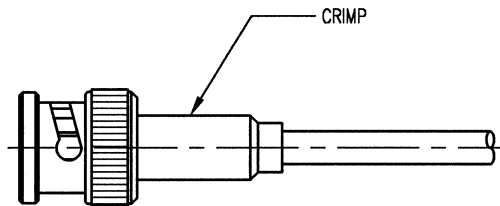
1. PREPARATION OF CABLE:
 - a. SLIDE CRIMP FERRULE ONTO CABLE.
 - b. STRIP CABLE TO DIMENSIONS SHOWN.



2. CRIMP CENTER CONTACT TO CABLE CENTER CONDUCTOR:
 - a. FLARE END OF CABLE BRAID TO FACILITATE INSERTION OF INNER FERRULE.
 - b. SLIDE BARREL AND BUSHING ONTO CABLE DIELECTRIC.
 - c. PLACE CENTER CONTACT ON CABLE CENTER CONDUCTOR AND CRIMP IN PLACE.



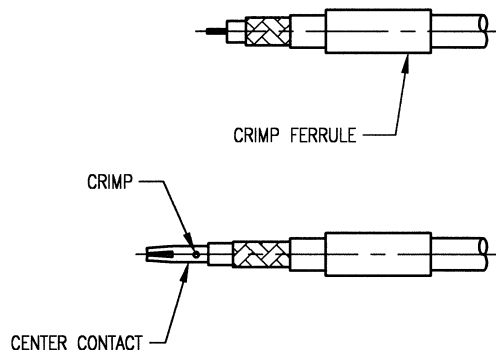
3. ATTACH CABLE TO CONNECTOR BODY:
 - a. INSERT CABLE ASSEMBLY INTO REAR OF BODY, WITH ALL BRAID WIRES ON OUTSIDE OF INNER FERRULE.
 - b. PUSH CABLE ASSEMBLY FORWARD UNTIL SNAPS INTO PLACE IN INSULATOR.



4. FINAL ASSEMBLY:
 - a. SLIDE CRIMP FERRULE FORWARD UNTIL FLUSH WITH CONNECTOR BODY CRIMP.

CABLE ASSEMBLY PROCEDURES: CM-05

For Right Angle Crimp Type Connectors

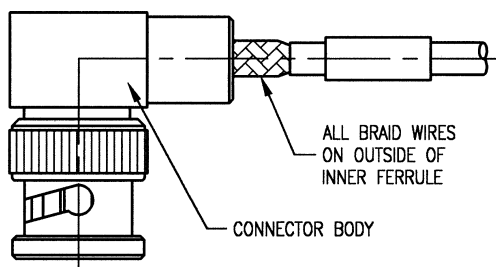


1. PREPARATION OF CABLE:

- SLIDE CRIMP FERRULE ONTO CABLE.
- STRIP CABLE TO DIMENSIONS SHOWN.

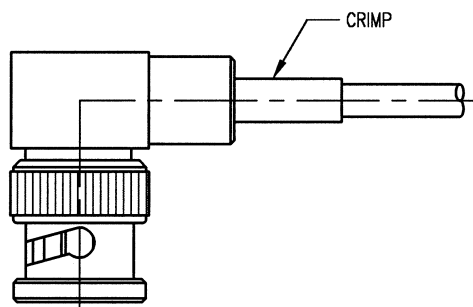
2. CRIMP CENTER CONTACT TO CABLE CENTER CONDUCTOR:

- INSERT CABLE CENTER CONDUCTOR INTO CENTER CONTACT UNTIL IT BUTTS AGAINST CABLE DIELECTRIC.
- CRIMP (OR SOLDER) CENTER CONTACT.



3. ATTACH CABLE TO CONNECTOR BODY:

- INSERT CABLE ASSEMBLY INTO REAR BODY, WITH ALL BRAID WIRES ON OUTSIDE OF INNER FERRULE.



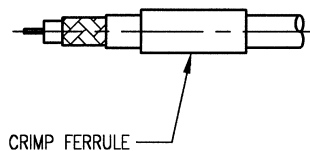
4. FINAL ASSEMBLY:

- SLIDE CRIMP FERRULE FORWARD UNTIL FLUSH WITH CONNECTOR BODY AND CRIMP.

CABLE ASSEMBLY PROCEDURES: CM-06

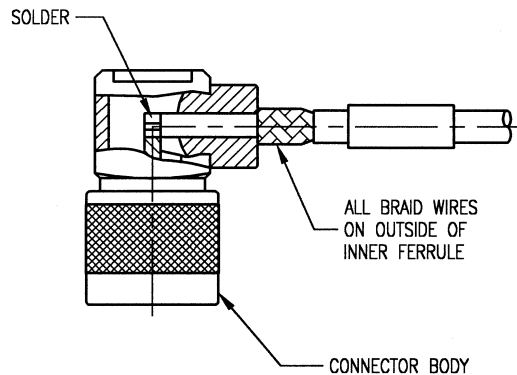
For Right Angle Crimp Style Connectors

PART NUMBER	"A" DIM	"B" DIM	"C" DIM
258-900-SERIES	.472	.228	.059
602-900-SERIES	.827	.315	.138
622-900-SERIES	.630	.256	.098



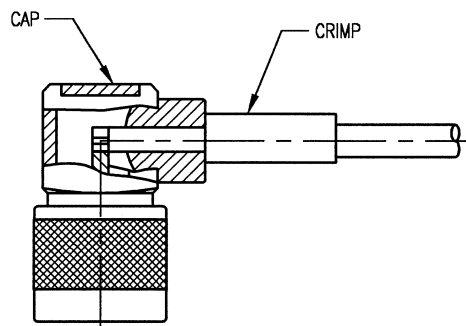
1. PREPARATION OF CABLE:

- SLIDE CRIMP FERRULE ONTO CABLE.
- STRIP CABLE TO DIMENSIONS SHOWN.



2. SOLDER CENTER CONTACT TO CABLE CENTER CONDUCTOR:

- INSERT CABLE INTO CONNECTOR BODY WITH CENTER CONDUCTOR PLACED IN CONTACT SLOT, AND WITH ALL BRAID WIRES ON OUTSIDE OF INNER FERRULE.
- SOFT SOLDER CENTER CONTACT TO CABLE CENTER CONDUCTOR.



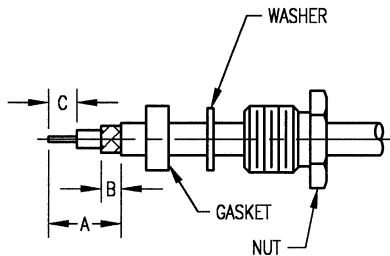
3. FINAL ASSEMBLY:

- SLIDE CRIMP FERRULE FORWARD UNTIL FLUSH WITH CONNECTOR BODY AND CRIMP.
- PRESS CAP INTO OPENING IN REAR OF CONNECTOR BODY.

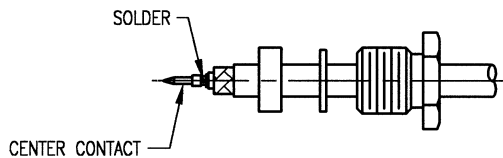
CABLE ASSEMBLY PROCEDURES: CM-07

For Clamp Type Connectors

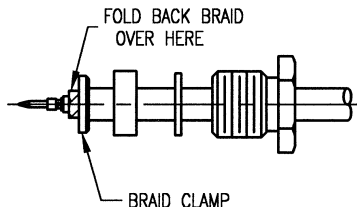
PART NUMBER	"A" DIM	"B" DIM	"C" DIM
600-800-SERIES	.295	.197	.150
601-800-SERIES	.472	.256	.157



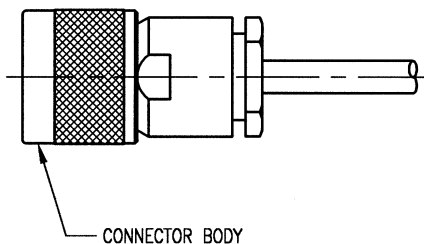
1. PREPARATION OF CABLE:
 - a. SLIDE NUT, WASHER, AND GASKET ONTO CABLE.
 - b. STRIP CABLE TO DIMENSIONS SHOWN.



2. SOLDER CENTER CONTACT TO CABLE CENTER CONDUCTOR:
 - a. INSERT CABLE CENTER CONDUCTOR INTO CENTER CONTACT UNTIL IT BUTTS AGAINST CABLE DIELECTRIC.
 - b. SOLDER CENTER CONTACT.



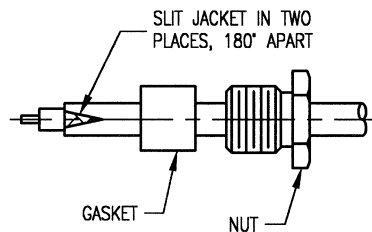
3. INSTALL BRAID CLAMP:
 - a. PLACE BRAID CLAMP OVER CABLE BRAID.
 - b. COMB BRAID WIRES OUT STRAIGHT AND FOLD BACK OVER FRONT SHOULDER OF BRAID CLAMP.
 - c. TRIM BRAID WIRES FLUSH WITH THE EDGE OF BRAID CLAMP.



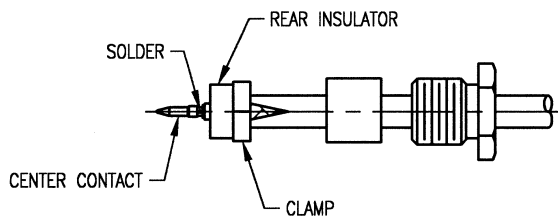
4. FINAL ASSEMBLY:
 - a. MOUNT CABLE ASSEMBLY AND HARDWARE INTO CONNECTOR BODY.
 - b. SCREW AND TIGHTEN NUT.

CABLE ASSEMBLY PROCEDURES: CM-08

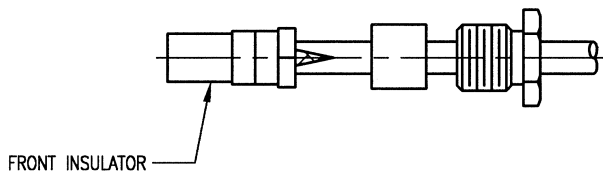
For Clamp Type Connectors



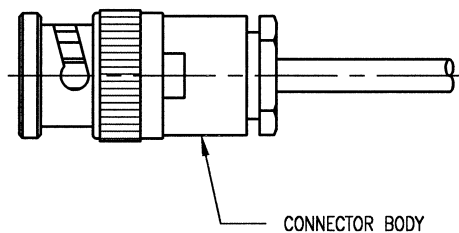
1. PREPARATION OF CABLE:
 - a. SLIDE NUT AND GASKET ONTO CABLE.
 - b. STRIP CABLE TO DIMENSIONS SHOWN.
 - c. SLIT CABLE JACKET IN TWO PLACES, 180° APART.



2. SOLDER CENTER CONTACT TO CABLE CENTER CONDUCTOR:
 - a. PLACE BRAID CLAMP BETWEEN CABLE DIELECTRIC AND BRAID.
 - b. SLIDE ON REAR INSULATOR AND CENTER CONTACT (THESE PARTS MUST BUTT).
 - c. SOLDER CENTER CONTACT TO CABLE CENTER CONDUCTOR.



3. INSTALL INSULATOR:
 - a. INSTALL FRONT INSULATOR OVER CENTER CONTACT.

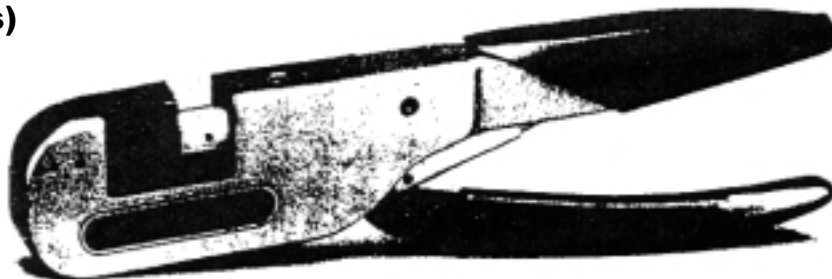


4. FINAL ASSEMBLY:
 - a. MOUNT CABLE ASSEMBLY AND HARDWARE INTO CONNECTOR BODY.
 - b. SCREW AND TIGHTEN NUT.

CONNECTOR TOOLS

Crimp Tool (For HEX Dies)

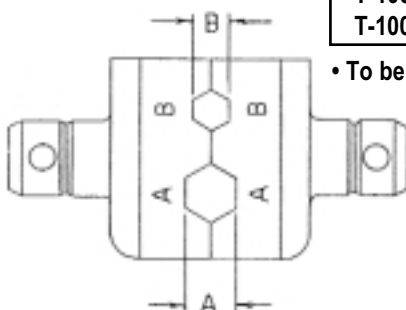
Part Number
T-1001



Die Set

Part Number	A HEX	Length	B HEX	Length
T-1001-2	.128	.325	.105	.325
T-1001-3	.213	.325	.178	.325
T-1001-5	.314	.400	.151	.400

• To be used with crimp tool (T-1001)



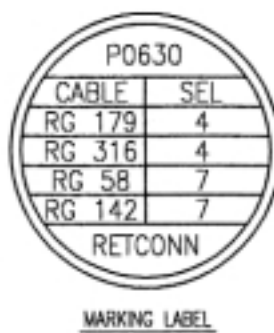
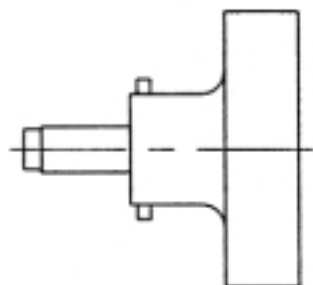
Center Contact Crimping Tool

Part Number
T-2400



Positioner

Part Number
P0630



• To be used with center contact crimping tool (T-2400)

Note: Dimensions shown in inches.

Winchester/Retconn

OTHER PRODUCT OFFERINGS

C-Press®

Winchester
press-fit compliant
pin connectors

- D-Subs - standard and hybrid
- Headers-IDC, strip, power
- Telecom plastic and metal
- Coax - 50 and 70 Ohm power terminals
- Cardedge
- Contacts - reels and strips
- Industry standard high density L-Series
- Modular high density HD+™
- DIN 41612 Standard, Inverse, Hybrid
- Right angle press-fit
- Guided DIN
- Switching DIN

Standard PCB Connectors

Solder type

- D-Subs - right angle, straight, hybrid
- DIN - Standard, inverse, hybrid
- Rack & Panel - rectangular, round, miniature, subminiature
- V.35 - right angle, straight, high or low profile
- Headers - IDC type
- MIL-C-55302
- Two piece cardedge
- MetCon™ 1&2, 2mm high density
- RF Coaxial Connectors

Standard Cable Type Connectors

- D-Subs - IDC
- Rack & Panel - Crimp, V.35, MIL-C-28748, MIL-C-39029, hybrid
- RF Coaxial Connectors

Unique Products

- Metalized plastic connectors
- USECO - terminals, hardware, terminal boards and more!
- Wireless LAN Antennas
- Interconnect Filtering - Inexpensive EMI filtering of most connectors
- A variety of Rack & Panel - cable to cable, PCB to PCB, Cable to PCB
- A variety of Power Connectors



Our products are limited only by your imagination.

Winchester/Retconn

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FAX BACK FORM

The following list of questions will help define your requirements for additional information on our product offerings.

Customer Information

Customer Name

Address

City

State

Zip

Contact Name

Telephone

Fax

☐ Please have a Winchester/Retconn Representative call.

Product Offerings

For specific product information, check box next to the product description.

C-Press®

Press-fit compliant pin connectors

- ☐ D-Subs - standard and hybrid
- ☐ Headers-IDC, strip, power
- ☐ Telecom plastic and metal
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- ☐ Right angle press-fit
- ☐ Guided DIN
- ☐ Switching DIN

Standard Cable Type Connectors

- ☐ D-Subs - IDC
- ☐ Rack & Panel - Crimp, V.35, MIL-C-28748, MIL-C-39029, hybrid
- ☐ RF Coaxial Connectors

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Solder Type

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