

SMC Series Subminiature RF Connectors

ONLINE
CATALOG

Screw-on mating
Frequency range DC-10 GHz
Lightweight and economical



SLB and SMB connectors also shown for comparison



APPLIED ENGINEERING PRODUCTS

104 John W. Murphy Drive • P.O. Box 510 • New Haven, CT 06513

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SMC Subminiature Connectors

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SMC Specifications

Specifications (MIL-PRF-39012 as applicable)

Materials:

Body components, male contacts: Brass per ASTM-B-16, alloy 360, 1/2 hard.

Female contacts: Beryllium copper per ASTM-B-196, Condition HT.

Insulators: Teflon TFE per ASTM-D-1710.

Finish:

Center contacts: Gold plated per current revision of MIL-PRF-39012*

Other metal parts: Gold or nickel plated to meet current MIL-PRF-39012 corrosion requirements.*

Electrical:

Impedance: 50Ω. **Frequency range:** DC–10 GHz. **Insulation Resistance:** 1,000 megohms minimum.

Voltage Rating: 250VRMS @ sea level (RG-178 cable); 335VRMS @ sea level (RG-316 cable).

Dielectric Withstanding Voltage: 750VRMS @ sea level (RG-178 cable); 1000VRMS @ sea level (RG-316 cable).

Contact Resistance:

Straight connectors: Initial: 6 milliohms maximum; after environmental test conditions: 8 milliohms maximum.

Right angle connectors: Initial: 12 milliohms maximum; after environmental test conditions: 16 milliohms maximum.

Corona level: 125V @70,000 ft. **RF highpot:** 400 VRMS @ 5 MHz.

RF leakage: -60 dB min @ 2–3 GHz. **Insertion loss:** .25 dB max (straight connectors), .50 dB max (right angle connectors) @ 1.5 GHz.

VSWR:	Cable	Straight connector	Right angle connector
	RG-178	1.25 + (.04 x F[GHz])	1.40 + (.06 x F[GHz])
	RG-316	1.20 + (.04 x F[GHz])	1.33 + (.04 x F[GHz])

Mechanical:

Mating torque: 35–50 inch-ounces. **Coupling nut pulloff resistance:** 35 pounds min.

Contact retention: 2 pounds min axial force. **Durability:** 500 mating cycles.

Environmental (MIL-STD-202):

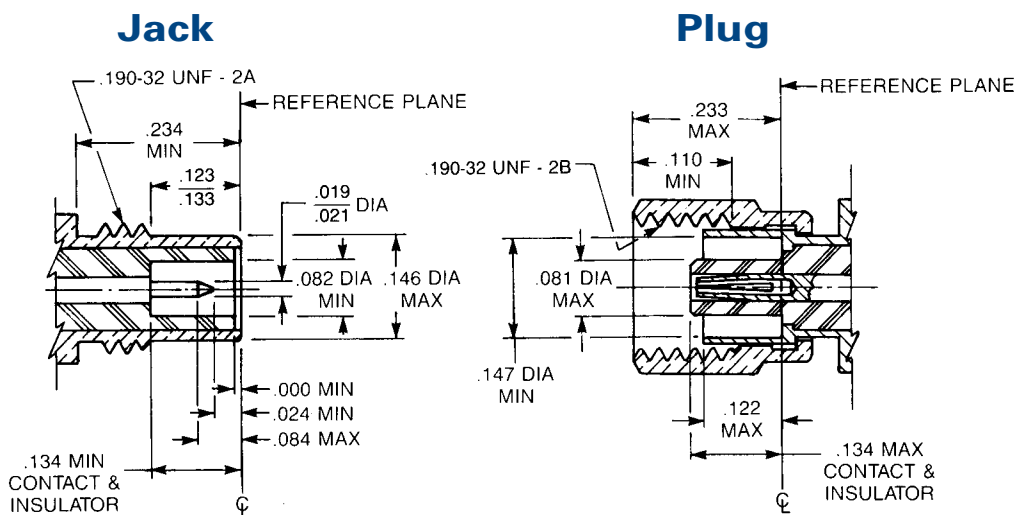
Temperature range: -65° C to +165° C. **Corrosion:** Method 101, condition B, 5% salt solution.

Vibration (Method 204): Condition D.

Mechanical shock (Method 213): Condition C. **Thermal shock (Method 107):** Condition B.

*These specifications change periodically with updates to MIL-PRF-39012 requirements. Contact factory for latest specifications.

Interface Dimensions



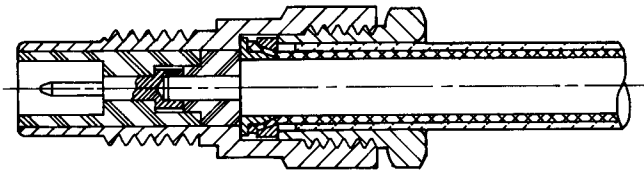
SMC Cable Attachment Methods

All SMC cable connectors in this catalog have captivated contacts which are soldered to the cable center conductor.

Both crimp and clamp types for flexible cable grip the cable braid with a force greater than the breaking strength of the braid.

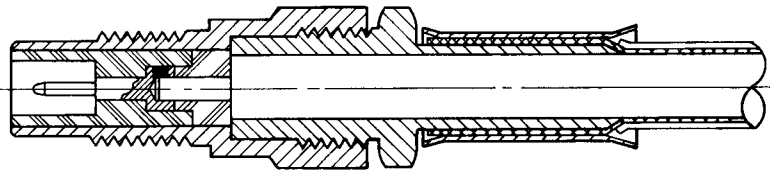
Clamp Type For Flexible Cable

These connectors can be assembled without special tooling, and are field replaceable. They provide metal-to-metal clamping of the cable braid.



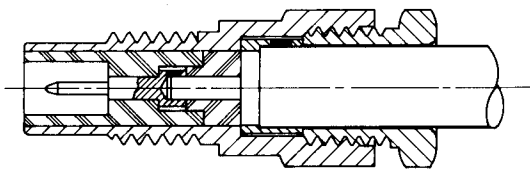
Crimp Type For Flexible Cable

Crimping the cable braid is the most reliable and repeatable method of cable assembly, and provides support for the cable during flexure. AEP crimp type connectors are assembled quickly and easily using readily-available commercial or MIL crimp tools.



Solder-Clamp For Semi-Rigid Cable

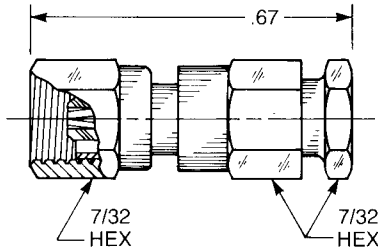
This method allows retrimming of the cable dielectric, if necessary, during assembly. Connectors can be repositioned relative to the cable after assembly by loosening the clamp nut. Solder-clamp connectors are field replaceable without special tools.



SMC Cable Plugs

Click on part number to go directly to cable assembly instructions

Straight Plugs

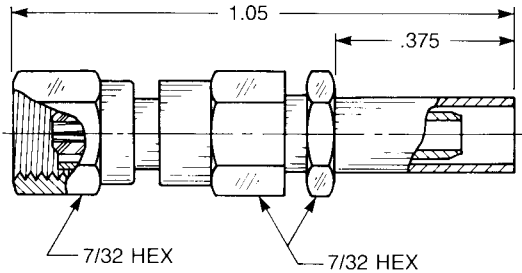


Straight Female Cable Plug

Clamp type for flexible cable:
1002-1551-0XX (Gold plated)
1002-7551-0XX (Nickel plated)

Solder-clamp for semi-rigid cable:
1002-1541-0XX (Gold plated)
1002-7541-0XX (Nickel plated)

QPL version available (M39012/73)

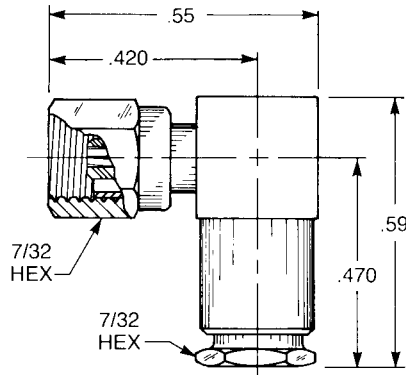


Straight Female Cable Plug

Crimp type for flexible cable:
1002-1571-0XX (Gold plated)
1002-7571-0XX (Nickel plated)

QPL version available (M39012/73)

Right Angle Plugs

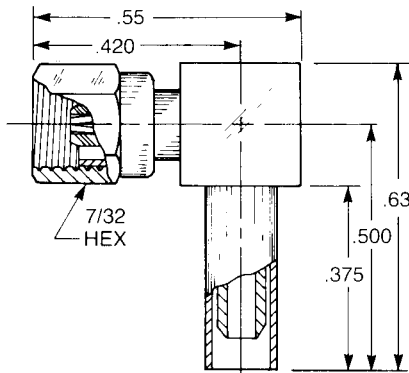


Right Angle Female Cable Plug

Clamp type for flexible cable:
1005-1551-0XX (Gold plated)
1005-7551-0XX (Nickel plated)

Solder-clamp for semi-rigid cable:
1005-1541-0XX (Gold plated)
1005-7541-0XX (Nickel plated)

QPL version available (M39012/75)



Right Angle Female Cable Plug

Crimp type for flexible cable:
1105-1521-0XX (Gold plated)
1105-7521-0XX (Nickel plated)

QPL version available (M39012/75)

Substitute the appropriate cable group number for "XX" when ordering:

GROUP	CABLE TYPES	GROUP	CABLE TYPES	GROUP	CABLE TYPES
02	RG178, RG196, M17/93, M17/169	05	RG178DS, RG196DS	10	.085" semi-rigid, RG405, M17/133
03	RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/189	09	.141" semi-rigid, RG 402M17/130	19	RG174DS, RG316DS, M17/151, M17/152, Times RD-316



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SMC Cable Jacks

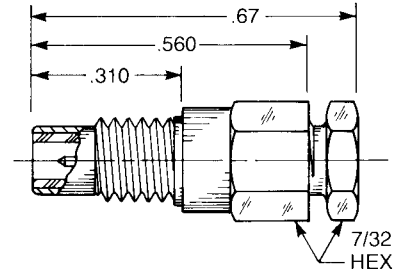
Click on part number to go directly to cable assembly instructions

Straight Jacks

Straight Male Cable Jack

Clamp type for flexible cable: Solder-clamp for semi-rigid cable:
 1001-1551-0XX (Gold plated) 1001-1541-0XX (Gold plated)
 1001-7551-0XX (Nickel plated) 1001-7541-0XX (Nickel plated)

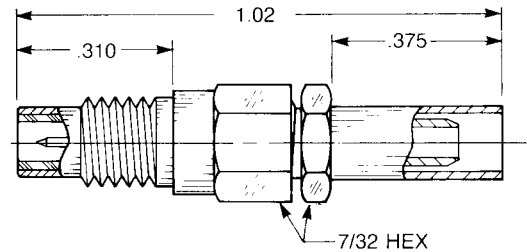
QPL version
 available (M39012/74)



Straight Male Cable Jack

Crimp type for flexible cable:
 1001-1571-0XX (Gold plated)
 1001-7571-0XX (Nickel plated)

QPL version available (M39012/74)

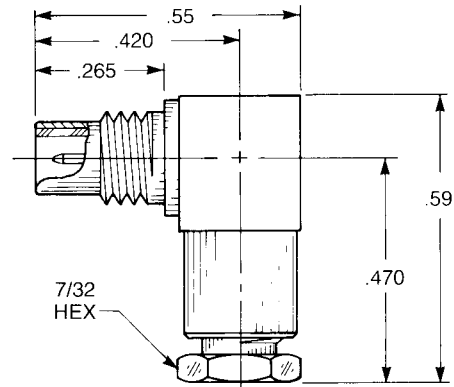


Right Angle Jacks

Right Angle Male Cable Jack

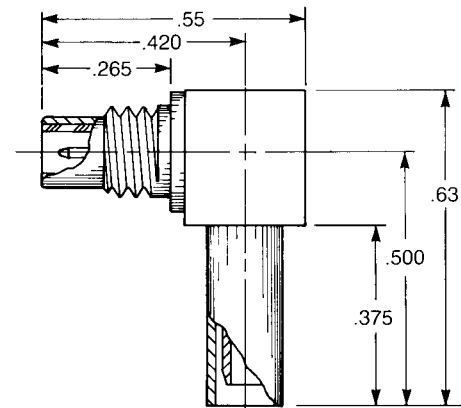
Clamp type for flexible cable:
 1041-1551-0XX (Gold plated)
 1041-7551-0XX (Nickel plated)

Solder-clamp for semi-rigid cable:
 1041-1541-0XX (Gold plated)
 1041-7541-0XX (Nickel plated)



Right Angle Male Cable Jack

Crimp type for flexible cable:
 1141-1521-0XX (Gold plated)
 1141-7521-0XX (Nickel plated)



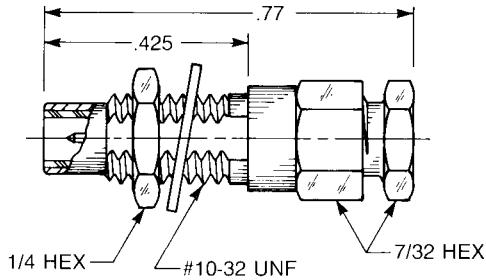
Substitute the appropriate cable group number for "XX" when ordering:

GROUP	CABLE TYPES	GROUP	CABLE TYPES	GROUP	CABLE TYPES
02	RG178, RG196, M17/93, M17/169	05	RG178DS, RG196DS	10	.085" semi-rigid, RG405, M17/133
03	RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/189	09	.141" semi-rigid, RG 402M17/130	19	RG174DS, RG316DS, M17/151, M17/152, Times RD-316

SMC Bulkhead Mounted Cable Jacks

Click on part number to go directly to cable assembly instructions

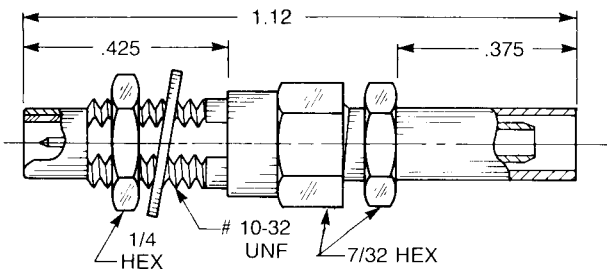
Straight Jacks



Straight Male Bulkhead Cable Jack

Clamp type for flexible cable: Solder-clamp for semi-rigid cable:
 1003-1551-0XX (Gold plated) 1003-1541-0XX (Gold plated)
 1003-7551-0XX (Nickel plated) 1003-7541-0XX (Nickel plated)

QPL version available (M39012/76)

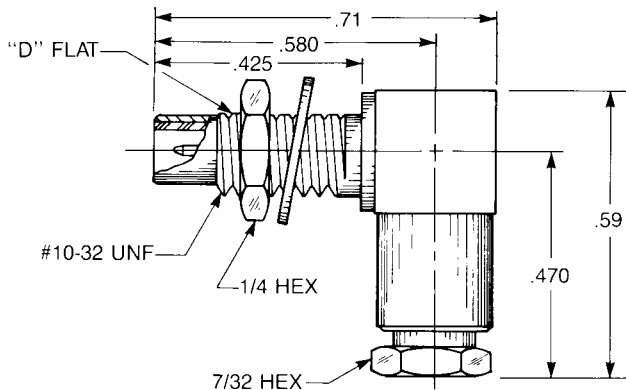


Straight Male Bulkhead Cable Jack

Crimp type for flexible cable:
 1003-1571-0XX (Gold plated)
 1003-7571-0XX (Nickel plated)

QPL version available (M39012/76)

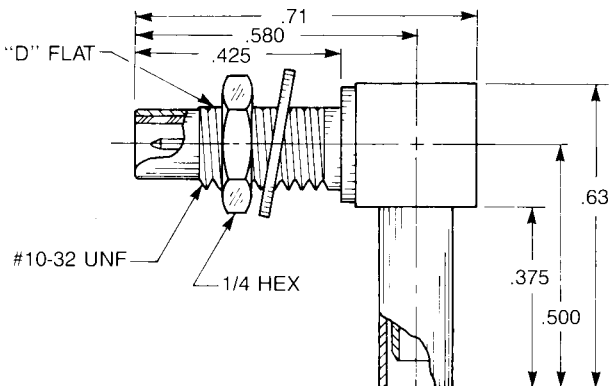
Right Angle Jacks



Bulkhead Mounted Right Angle Male Cable Jack

Clamp type for flexible cable:
 1006-1551-0XX (Gold plated)
 1006-7551-0XX (Nickel plated)

Solder-clamp for semi-rigid cable:
 1006-1541-0XX (Gold plated)
 1006-7541-0XX (Nickel plated)



Bulkhead Mounted Right Angle Male Cable Jack

Crimp type for flexible cable:
 1106-1521-0XX (Gold plated)
 1106-7521-0XX (Nickel plated)

Substitute the appropriate cable group number for "XX" when ordering:

GROUP	CABLE TYPES	GROUP	CABLE TYPES	GROUP	CABLE TYPES
02	RG178, RG196, M17/93, M17/169	05	RG178DS, RG196DS	10	.085" semi-rigid, RG405, M17/133
03	RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/189	09	.141" semi-rigid, RG 402M17/130	19	RG174DS, RG316DS, M17/151, M17/152, Times RD-316



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SMC Bulkhead Receptacles

Straight Jacks

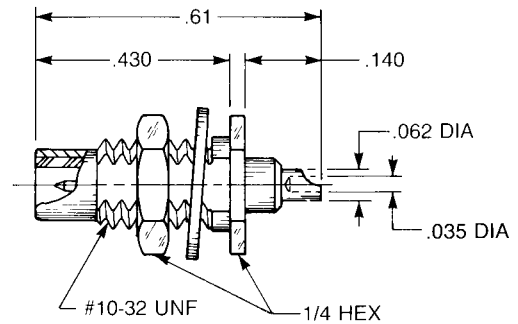
Straight Male Bulkhead Jack Receptacle

- Solder pot contact
- Rear mount

1004-1511-000 (Gold plated)

1004-7511-000 (Nickel plated)

QPL version available (M39012/77)



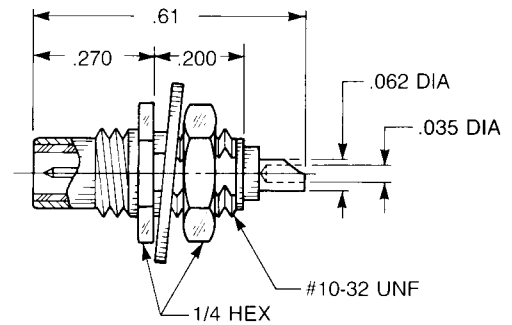
Straight Male Bulkhead Jack Receptacle

- Solder pot contact
- Front mount

1019-1511-000 (Gold plated)

1019-7511-000 (Nickel plated)

QPL version available (M39012/77)



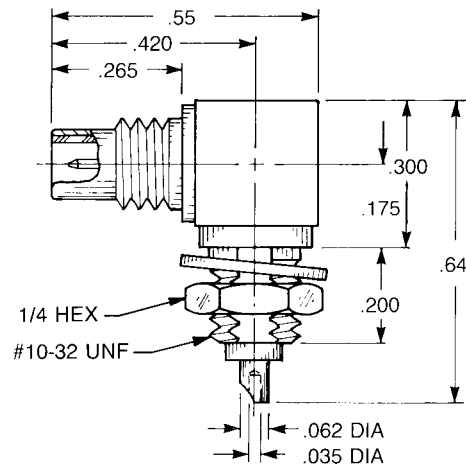
Right Angle Jack

Right Angle Male Bulkhead Jack Receptacle

- Solder pot contact
- Front mount

1012-1511-000 (Gold plated)

1012-7511-000 (Nickel plated)



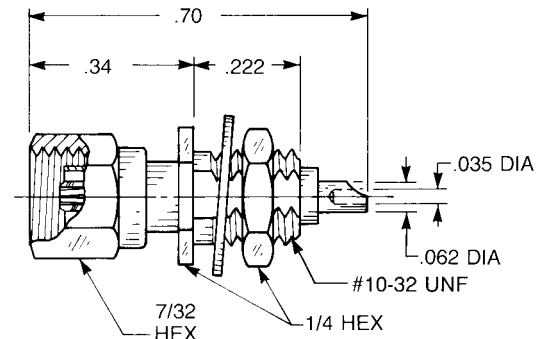
Straight Plug

Straight Female Bulkhead Plug Receptacle

- Solder pot contact
- Front mount

1017-1511-000 (Gold plated)

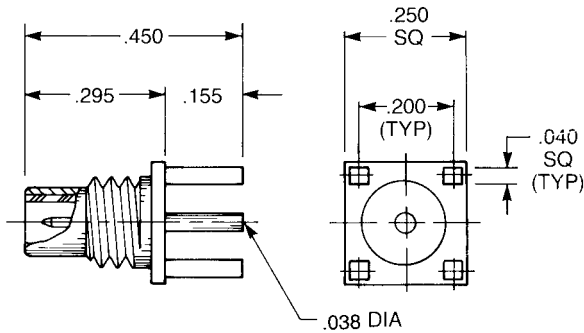
1017-7511-000 (Nickel plated)



(All fit .093" max panel thickness)

SMC P.C. Board Receptacles

Straight Jacks

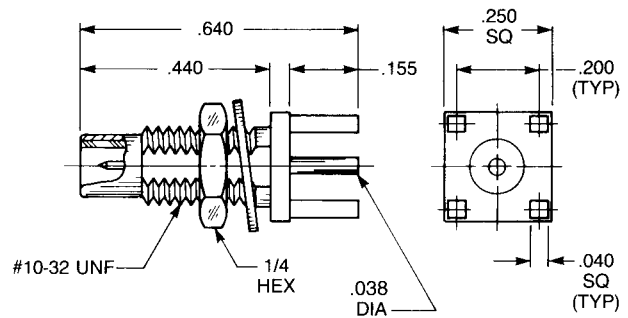


Straight Male Jack Receptacle

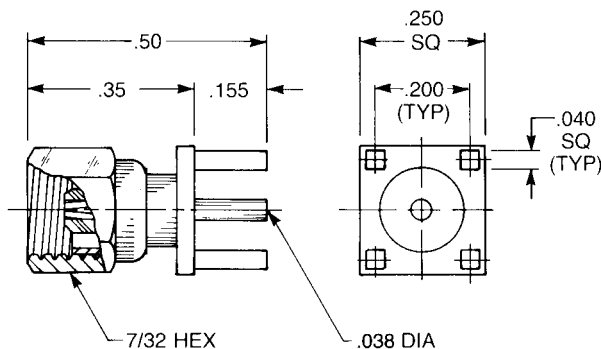
1009-1511-000 (Gold plated)
1009-7511-000 (Nickel plated)

Bulkhead Mounted Straight Male Jack P.C. Board Receptacle

1109-1511-000 (Gold plated)
1109-7511-000 (Nickel plated)



Straight Plug



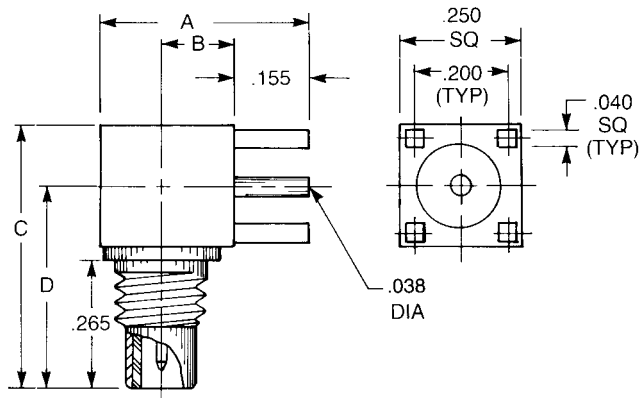
Straight Female Plug Receptacle

1025-1511-000 (Gold plated)
1025-7511-000 (Nickel plated)



SMC P.C. Board Receptacles

Right Angle Jacks



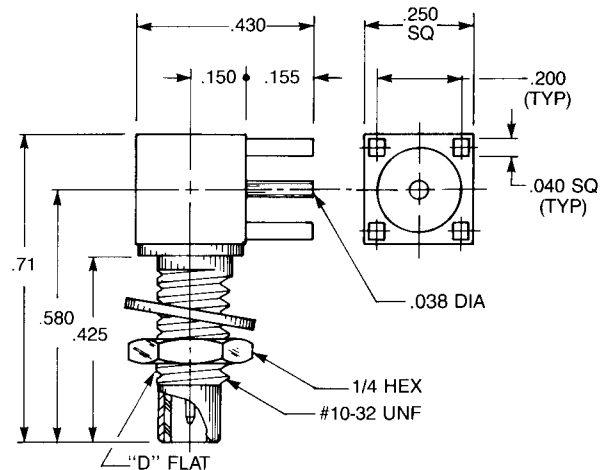
Right Angle Male Jack Receptacle

A	B	C	D
.43	.15	.55	.42
1010-1511-000		(Gold plated)	
1010-7511-000		(Nickel plated)	

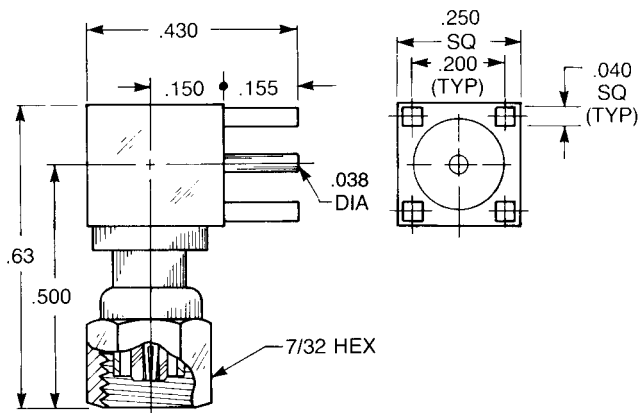
A	B	C	D
.50	.215	.55	.42
1010-1511-001		(Gold plated)	
1010-7511-001		(Nickel plated)	

Bulkhead Mounted Right Angle Male Jack P.C. Board Receptacle

1110-1511-000 (Gold plated)
1110-7511-000 (Nickel plated)



Right Angle Plug



Right Angle Female Plug Receptacle

1042-1511-000 (Gold plated)
1042-7511-000 (Nickel plated)

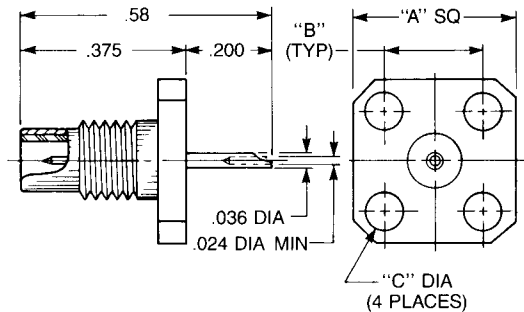
SMC Panel Receptacles

Straight Jack

Straight Male Panel Receptacle

A sq.	B	C dia.
.500	.340	.102
1486-1511-000		(Gold plated)
1486-7511-000		(Nickel plated)

A sq.	B	C dia.
.375	.232	.093
1484-1511-000		(Gold plated)
1484-7511-000		(Nickel plated)

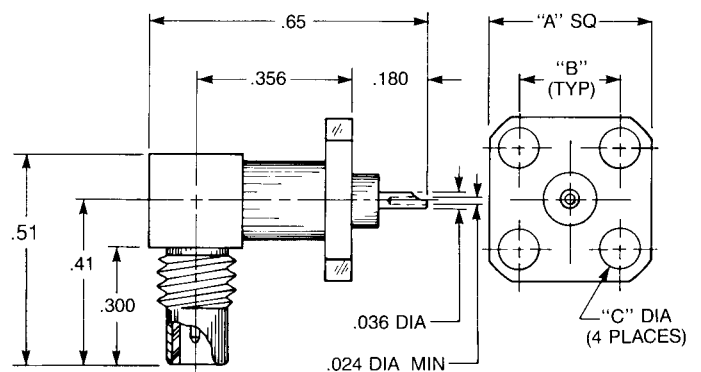


Right Angle Jack

Right Angle Male Panel Receptacle

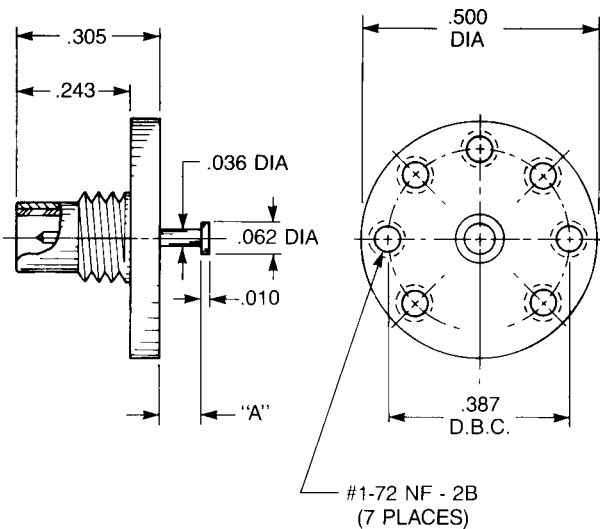
A sq.	B	C dia.
.500	.340	.102
1490-1511-000		(Gold plated)
1490-7511-000		(Nickel plated)

A sq.	B	C dia.
.375	.232	.093
1488-1511-000		(Gold plated)
1488-7511-000		(Nickel plated)



SMC Stripline Receptacles

Straight Jack

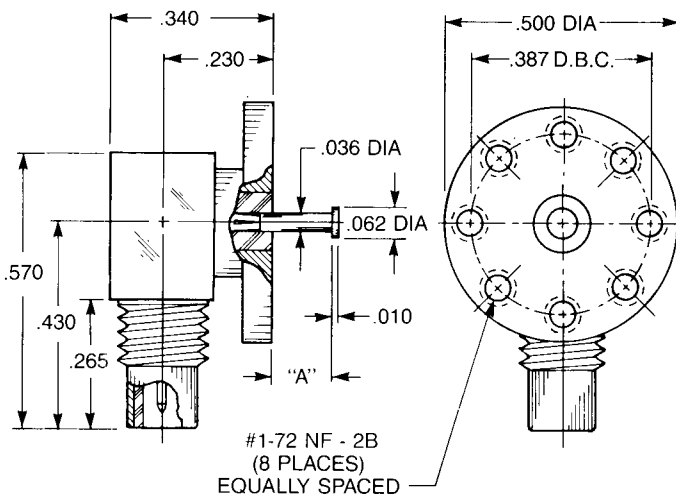


Straight Male Top Launch Jack

- Non-captive contact

Dim. A	Part number	
.031	1029-1211-001	(Gold plated)
	1029-7211-001	(Nickel plated)
.063	1029-1211-002	(Gold plated)
	1029-7211-002	(Nickel plated)
.125	1029-1211-003	(Gold plated)
	1029-7211-003	(Nickel plated)

Right Angle Jack



Right Angle Male Top Launch Jack

- Removable rear contact

Dim. A	Part number	
.031	1092-1511-001	(Gold plated)
	1092-7511-001	(Nickel plated)
.063	1092-1511-002	(Gold plated)
	1092-7511-002	(Nickel plated)
.125	1092-1511-003	(Gold plated)
	1092-7511-003	(Nickel plated)

SMC Adapters

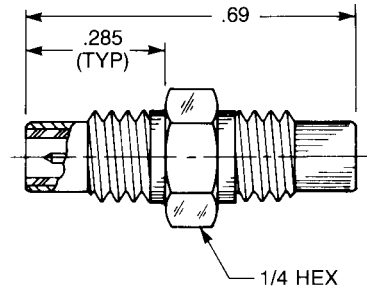
Straight Adapters

Straight Male Jack To Jack Adapter

- Connects two plugs

5813-1501-000 (Gold plated)

5813-7501-000 (Nickel plated)

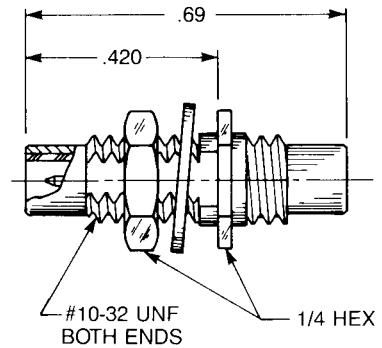


Bulkhead Mounted Straight Male Jack To Jack Adapter

- Connects two plugs
- For .093" max. panel

5822-1501-000 (Gold plated)

5822-7501-000 (Nickel plated)

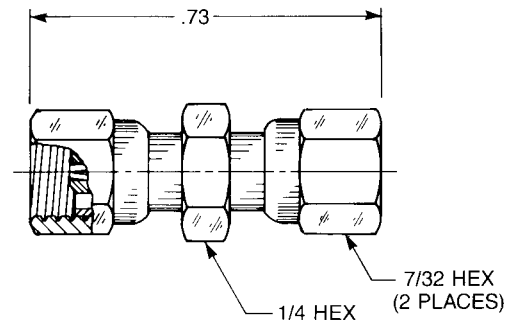


Straight Female Plug To Plug Adapter

- Connects two jacks

5816-1501-000 (Gold plated)

5816-7501-000 (Nickel plated)



SMC Adapters

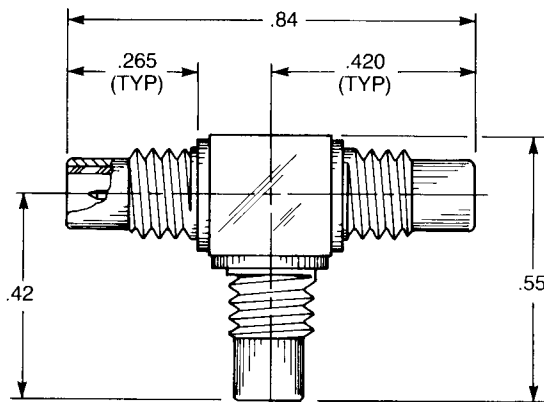
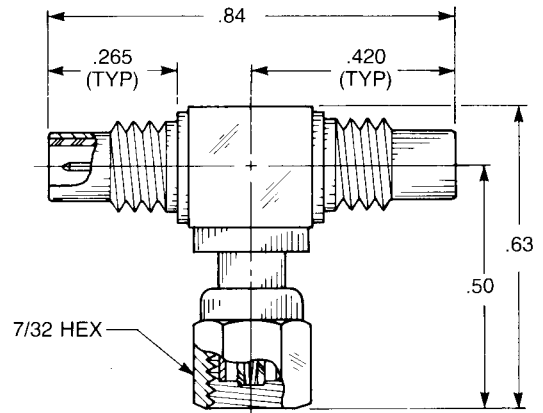
Tee Adapters

Tee Adapter (Unmatched Power Divider) Jack To Plug To Jack

- Connects two plugs and one jack

5815-1501-000 (Gold plated)

5815-7501-000 (Nickel plated)

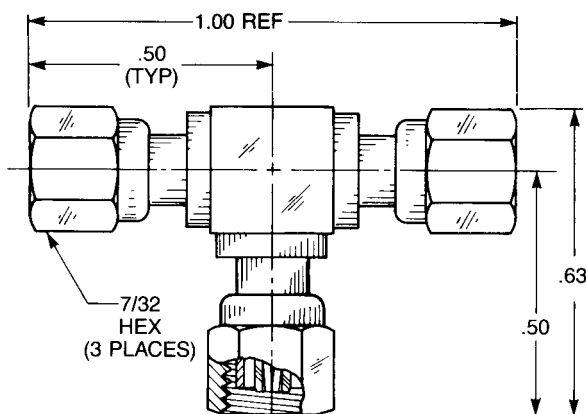


Tee Adapter (Unmatched Power Divider) Jack To Jack To Jack

- Connects three plugs

5807-1501-000 (Gold plated)

5807-7501-000 (Nickel plated)



Tee Adapter (Unmatched Power Divider) Plug To Plug To Plug

- Connects three jacks

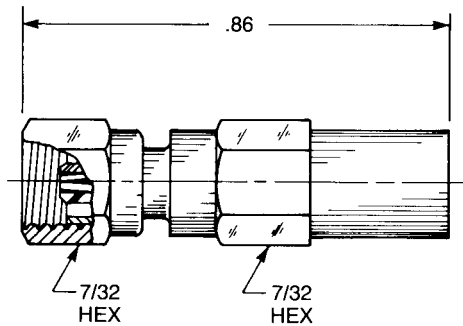
5808-1501-000 (Gold plated)

5808-7501-000 (Nickel plated)



SMC Terminations

Plug Termination



Female Plug Resistive Termination

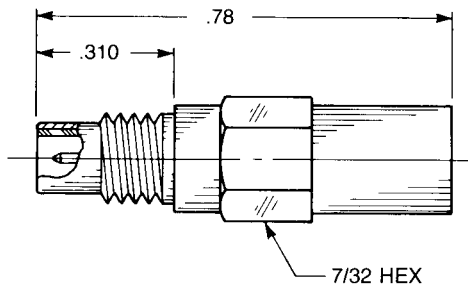
(Dummy load)

Standard resistor:
51 ohm, 1/2 watt,
5% tolerance

1036-1511-051 (Gold plated)
1036-7511-051 (Nickel plated)

Available with other resistances

Jack Termination



Male Jack Resistive Termination

(Dummy load)

Standard resistor:
51 ohm, 1/2 watt,
5% tolerance

1037-1511-051 (Gold plated)
1037-7511-051 (Nickel plated)

Available with other resistances

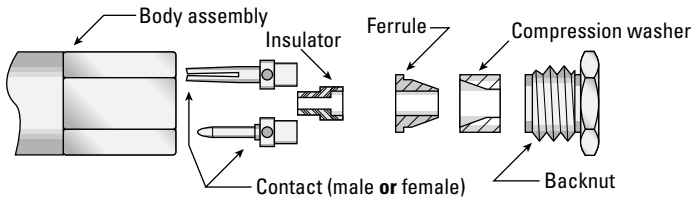


Cable Assembly Instructions

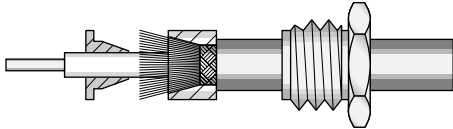
Clamp type connectors for flexible cable

Straight Connectors—Flexible Cable

Parts list

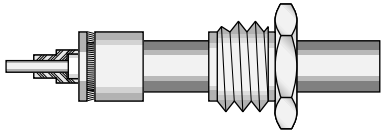


1



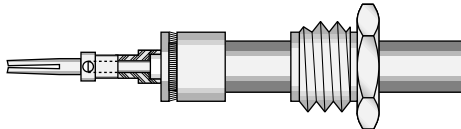
- Trim cable per trim code below; tin end of center conductor.
- Slide backnut onto cable. Slide compression washer onto cable in the orientation shown until it stops against cable jacket.
- Flare cable braid by rotating dielectric and slide ferrule under braid.

2



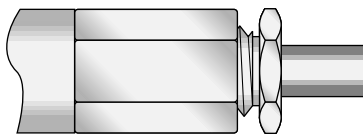
- Press ferrule against compression washer.
- Trim excess braid flush with outer diameter of compression washer and ferrule.
- Assemble insulator over cable center conductor and dielectric.

3



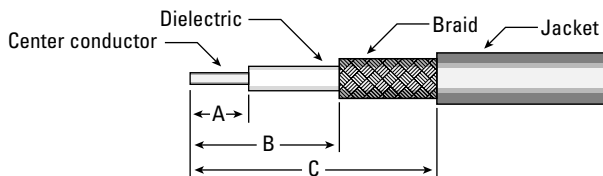
- Assemble contact onto cable center conductor.
- Solder contact to center conductor by heating rear of contact (do not feed additional solder through inspection hole in contact).

4



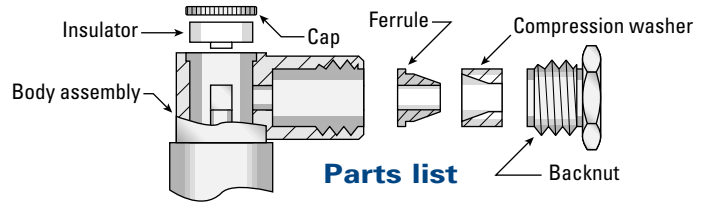
- Insert cable assembly into body assembly. Tighten to 90–100 inch-ounces torque. (Hold cable/hardware assembly stationary and rotate body when tightening.)

Cable Trim Dimensions

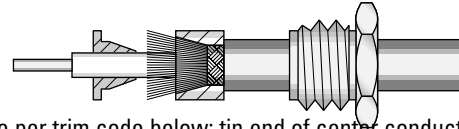


CONNECTOR TYPE	A	B	C
STRAIGHT CONNECTORS	.080	.120	.240
RIGHT ANGLE CONNECTORS	.080	.180	.300

Right Angle Connectors—Flexible Cable

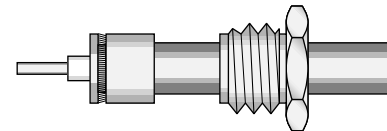


1



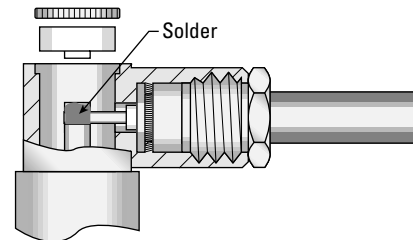
- Trim cable per trim code below; tin end of center conductor.
- Slide backnut onto cable. Slide compression washer onto cable in the orientation shown until it stops against cable jacket.
- Flare cable braid by rotating dielectric and slide ferrule under braid.

2



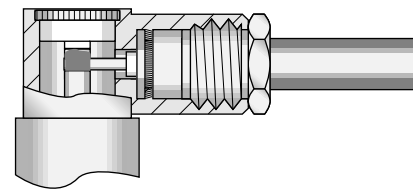
- Press ferrule against compression washer.
- Trim excess braid flush with outer diameter of compression washer and ferrule.
- Assemble insulator over cable center conductor and dielectric.

3



- Insert cable assembly into body assembly. Tighten to 90–100 inch-ounces torque. (Hold cable/hardware assembly stationary and rotate body when tightening.)
- Solder center conductor into notch in rear of contact with .025–.032" diameter chisel-tip soldering iron.
- Solder should cover center conductor, but not extend over top of notch in contact, or exceed contact diameter.

4



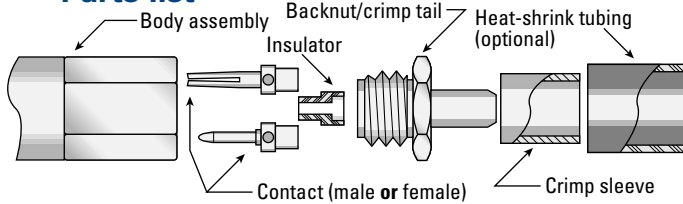
- Place insulator in body cavity, and press cap into place. Properly assembled cap will be slightly below end of body assembly.

Cable Assembly Instructions

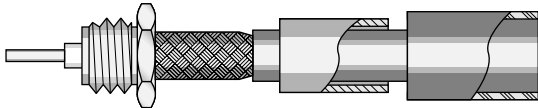
Crimp type connectors for flexible cable

Straight Connectors—Flexible Cable

Parts list

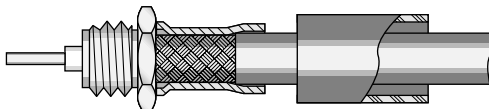


1



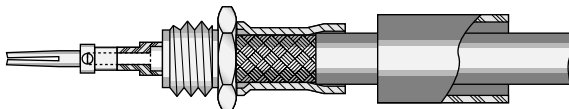
- Trim cable per trim code below; tin end of center conductor.
- Slide heat-shrink tubing and crimp sleeve over cable.
- Flare cable braid by rotating dielectric and slide cable into crimp tail.

2



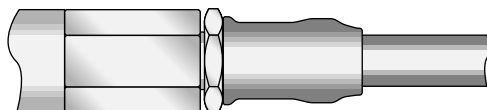
- Position cable so braid touches rear of back nut.
- Slide crimp sleeve forward to touch rear of back nut.
- Crimp braid with appropriate die size from chart below.

3



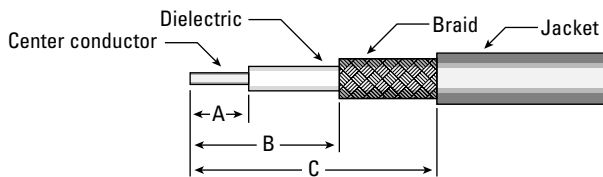
- Assemble insulator and contact onto cable dielectric and center conductor.
- Solder contact to center conductor by heating rear of contact (do not feed additional solder through inspection hole in contact).

4



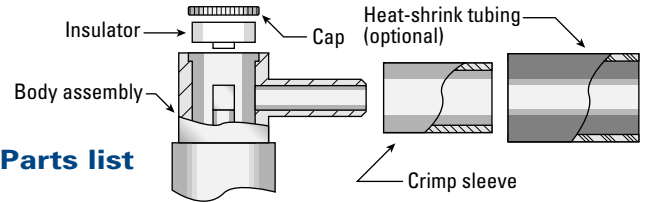
- Insert cable assembly into body assembly. Tighten to 90–100 inch-ounces torque. (Hold cable/hardware assembly stationary and rotate body when tightening.)
- Slide shrink tubing over crimp sleeve and shrink to fit.

Cable Trim Dimensions

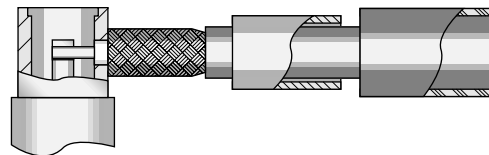


CONNECTOR TYPE	A	B	C
STRAIGHT CONNECTORS	.100	.430	.700
RIGHT ANGLE CONNECTORS	.070	.200	.450

Right Angle Connectors—Flexible Cable

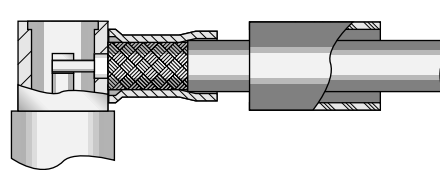


1



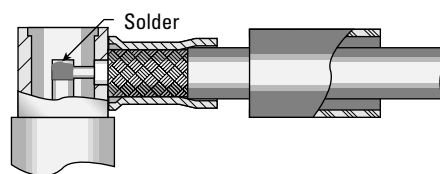
- Trim cable per trim code below; tin end of center conductor.
- Slide heat-shrink tubing and crimp sleeve over cable.
- Flare cable braid by rotating dielectric and slide cable into crimp tail.

2



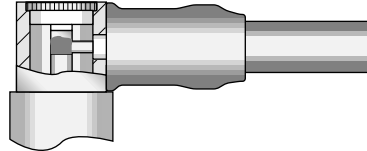
- Position cable so braid touches rear of body assembly.
- Slide crimp sleeve forward to touch rear of body assembly.
- Crimp braid with appropriate die size from chart below.

3



- Solder center conductor into notch in rear of contact with .025–.032" diameter chisel-tip soldering iron.
- Solder should cover center conductor, but not extend over top of notch in contact, or exceed contact diameter.

4



- Place insulator in body cavity, and press cap into place. Properly assembled cap will be slightly below end of body assembly.
- Slide shrink tubing over crimp sleeve and shrink to fit.

Crimp Die Sizes

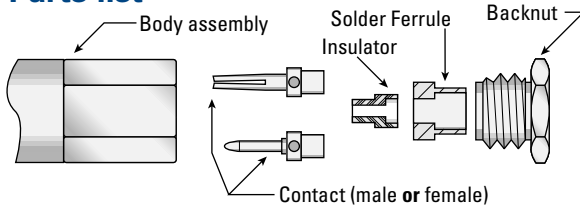
CABLE GROUP	HEX DIE SIZE
02	.105
03	.128
05	.128
19	.128

Cable Assembly Instructions

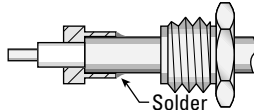
Solder-clamp connectors for semi-rigid cable

Straight Connectors—Semi-Rigid Cable

Parts list

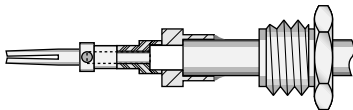


1



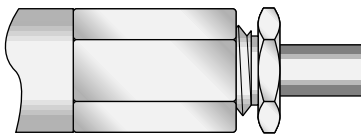
- Trim cable per trim code below; tin end of center conductor.
- Slide backnut over cable. Slide solder ferrule over cable until it stops against cable jacket.
- Solder cable jacket to ferrule.

2



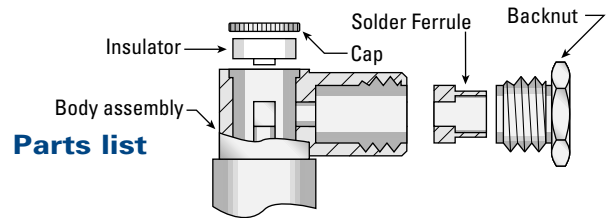
- Assemble insulator and contact onto cable dielectric and center conductor. If insulator is not flush against solder ferrule due to dielectric extrusion, retrim dielectric.
- Solder contact to center conductor by heating rear of contact (do not feed additional solder through inspection hole in contact).

3



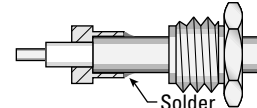
- Insert cable assembly into body assembly. Tighten to 90–100 inch-ounces torque. (Hold cable/hardware assembly stationary and rotate body when tightening.)

Right Angle Connectors—Semi-Rigid Cable



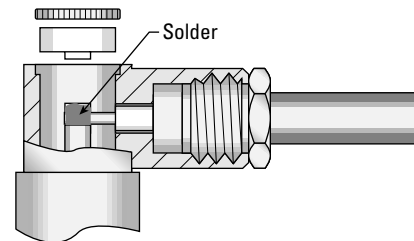
Parts list

1



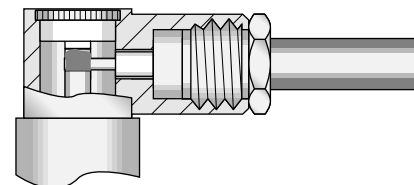
- Trim cable per trim code below; tin end of center conductor.
- Slide backnut over cable. Slide solder ferrule over cable until it stops against cable jacket.
- Solder cable jacket to ferrule.

2



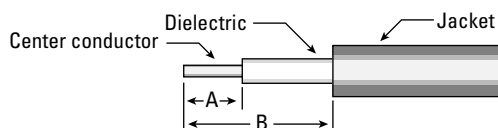
- Insert cable assembly into body assembly. Tighten to 90–100 inch-ounces torque. (Hold cable/hardware assembly stationary and rotate body when tightening.)
- Solder center conductor into notch in rear of contact with .025–.032" diameter chisel-tip soldering iron.
- Solder should cover center conductor, but not extend over top of notch in contact, or exceed contact diameter.

3



- Place insulator in body cavity, and press cap into place. Properly assembled cap will be slightly below end of body assembly.

Cable Trim Dimensions

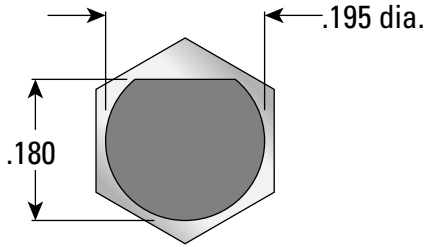


CONNECTOR TYPE	A	B
STRAIGHT CONNECTORS— .085" cable	.090	.170
STRAIGHT CONNECTORS— .141" cable	.105	.130
RIGHT ANGLE CONNECTORS	.110	.150



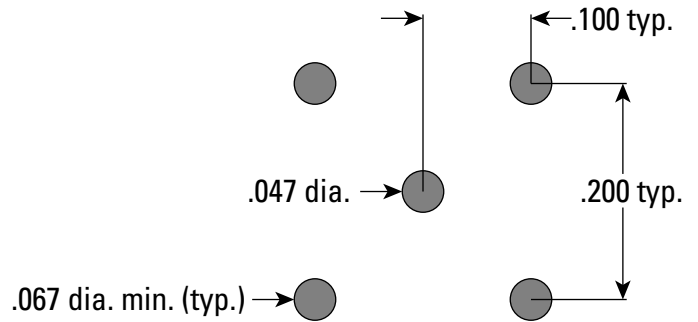
Mounting Dimensions

Bulkhead Receptacles



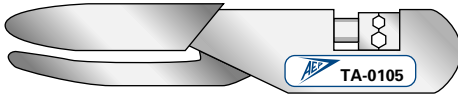
Flat of mounting surface is aligned with body hex as shown.

P.C. Board Receptacles



Assembly Tooling

Crimp tool



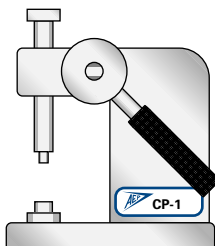
DESCRIPTION	AEP P/N
Crimp tool with .105" and .128" hex dies	TA-0105

Torque Wrench



DESCRIPTION	AEP P/N
Torque wrench with 7/32" jaws for SMC connector backnuts; 95 inch-ounces torque	TA-0436
Torque wrench with 7/32" jaws for SMC coupling nuts; 3 inch-pounds torque	TA-0398

Capping Press



DESCRIPTION	AEP P/N
Capping tool (arbor press) with base for SMC right angle plugs	CP-7
Capping tool (arbor press) with base for SMC right angle jacks	CP-8

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1009-7511-000	8	1490-1511-000	10
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* Indicates cable connectors with various types on specified page.



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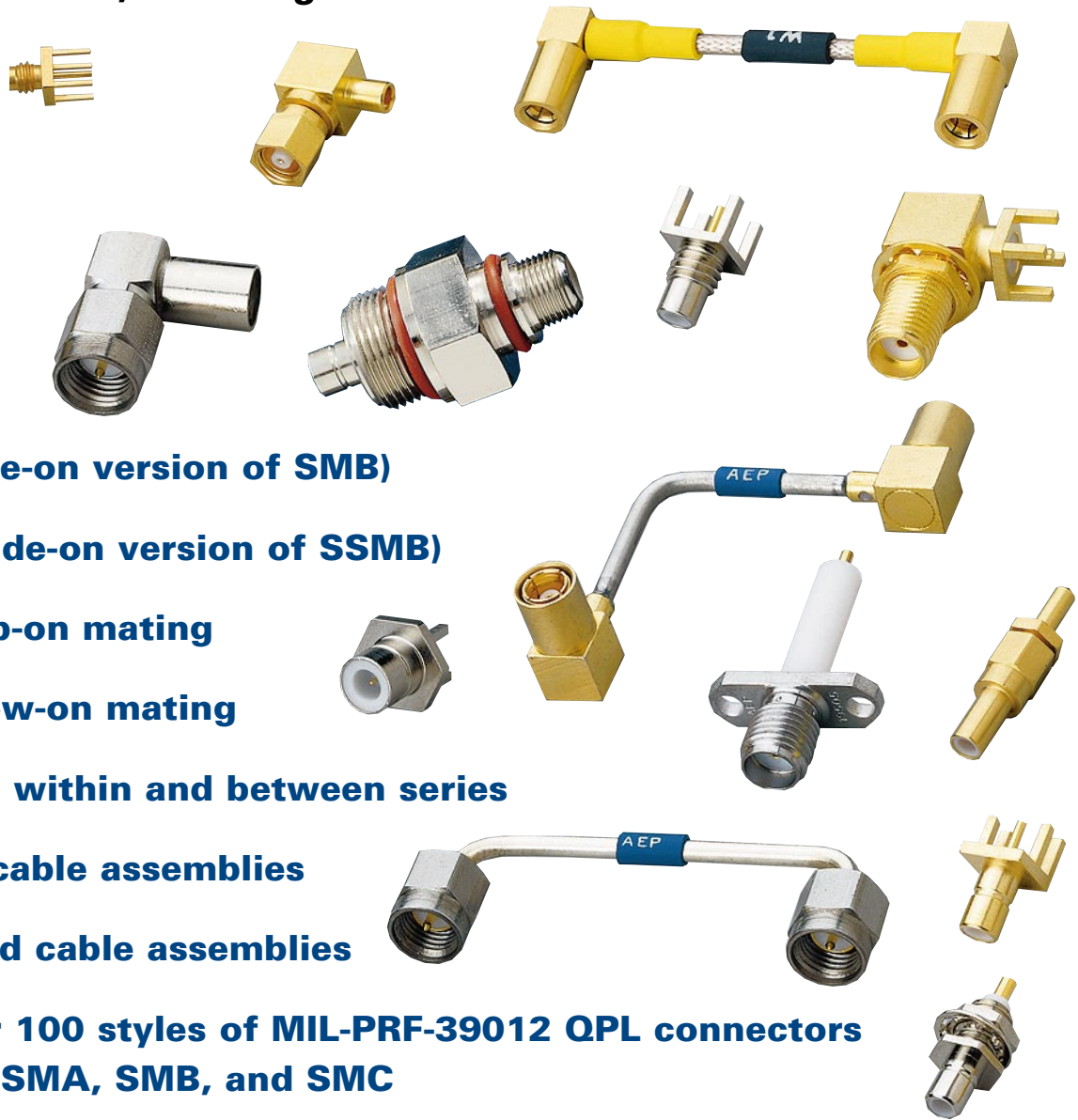
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