

### LC / LT Connectors

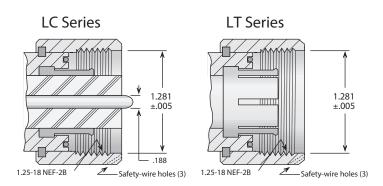
#### **General Description**

Delta LC and LT series connectors (which are similar in size, but not intermateable), are large, high-voltage, 50  $\Omega$  impedance connectors with 1 <sup>1</sup>/<sub>4</sub>–18 threaded mating. They are best suited for use with cables with diameters from .73" to 1.2", such as RG-17 and 117/U, and RG-18 and 118/U. Because of the variety of designs and assembly methods within these series, we suggest that you call us to verify the compatibility of specific connector pairs prior to ordering. As with all other Delta connector series, we welcome your specifications for special configurations.

#### LC/LT Configurations

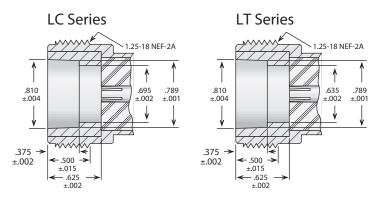
| Straight Cable Plugs                   | 2 |
|--|---|
| Panel Jack Receptacles (square flange) | 2 |
| In-Series Adapters                     | 3 |

#### **LC/LT Specifications**



#### Plug Interface\*\*

#### Jack Interface\*\*



\*\*Some proportions altered to illustrate detail.

### Electrical:

Nominal Impedance: 50 ohms. Frequency Range: DC–1 GHz. Voltage Rating: 5,000 volts RMS.

#### Materials/Finishes:

- Insulators: Teflon per ASTM D1710, or rexolite per MIL-P-77.
- Male Contacts: Brass per ASTM B16.
- Female Contacts: Beryllium Copper per ASTM B196.
- Contact Plating : Silver ASTM B700, or Gold per MIL-DTL-45204.
- Gaskets: Silicone rubber per ZZ-R-765, Class II, Grade 50.
- Other Metal Parts: Brass per ASTM B16 Plated: Silver - ASTM B700, or Nickel - AMS-QQ-N-290

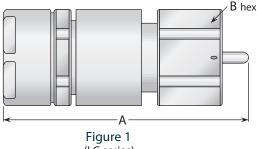
All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-C-3650, or other applicable MIL specifications.

\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

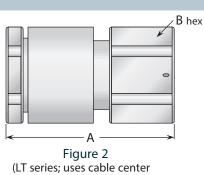
## LC / LT Connectors



#### **Panel Receptacles**







conductor as contact)

| Cable  | Figure | Dimensions |      | Plating |         | Delta P/N | Assembly Procedure/ |
|--------|--------|------------|------|---------|---------|-----------|---------------------|
| Group  | Figure | А          | В    | Body    | Contact | Della P/N | Trim Code           |
| 17, 18 | 1      | 3.50       | 1.50 | Nickel  | Silver  | UG-154B/U | ***                 |
| 20     | 2      | 3.03       | 1.50 | Nickel  | —       | UG-532A/U | ***                 |

#### **Straight Plug - For Flexible Cable**

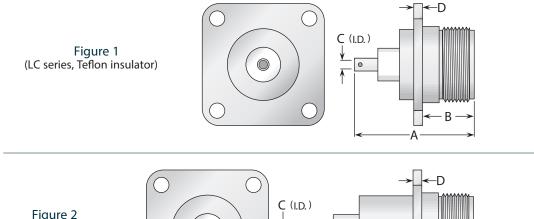
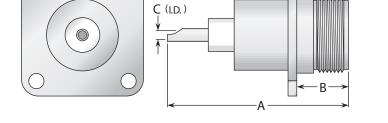


Figure 2 (LC series, pressurized, Rexolite insulator)



| Figure | Dimensions |      |      |      | Mounting | Plat   | ing        | Dalta D/N |
|--------|------------|------|------|------|----------|--------|------------|-----------|
| Figure | А          | В    | С    | D    | Figure   | Body   | Contact    | Delta P/N |
| 1      | 2.25       | 1.13 | .187 | .125 | 45       | Nickel | Silver (C) | UG-352/U  |
| 2      | 3.06       | .880 | .203 | .125 | 45       | Nickel | Silver (C) | UG-352B/U |

• See page 209 for cable groups. • \*\*\*Contact factory for cable assembly instructions.

• (C) in contact plating column indicates captive contact. • See page 208 for mounting dimensions.

See page 6 for alternate body plating information.

Note: Not all LC series plugs and jacks are intermateable. Contact factory for compatibility information on specific plug/jack combinations.

## LC & LT Adapters



#### **LC Series Adapters**

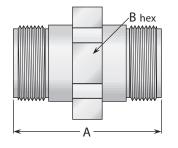


Figure 1 (Straight jack–jack; connects two plugs)

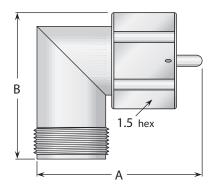


Figure 2 (Right angle plug–jack; connects one plug and one jack)

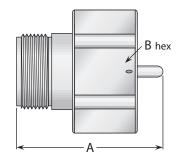


Figure 3 (Straight LC jack– large LC plug; connects one LC plug and one large LC jack)

| Figuro | Dime | nsions | Plat         | ing        | Delta P/N |
|--------|------|--------|--------------|------------|-----------|
| Figure | A    | В      | Body Contact |            | Delta P/N |
| 1      | 2.50 | 1.875  | Nickel       | Silver (C) | UG-157B/U |
| 2      | 2.72 | 2.60   | Nickel       | Silver (C) | UG-216B/U |
| 3      | 2.22 | 2.09   | Nickel       | Silver (C) | UG-220B/U |

#### **LT Series Adapters**

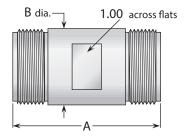


Figure 1 (Straight jack–jack; connects two plugs)

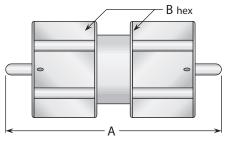


Figure 2 (Straight plug–plug; connects two jacks)

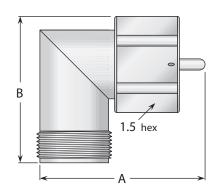


Figure 3 (Right angle plug–jack; connects one plug and one jack)

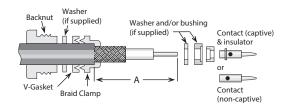
| Figuro | Dimensions |      | Plating |            | Delta P/N       |
|--------|------------|------|---------|------------|-----------------|
| Figure | А          | В    | Body    | Contact    | Delta P/N       |
| 1      | 2.50       | 1.25 | Nickel  | Silver (C) | UG-533B/U       |
| 2      | 3.70       | 1.50 | Nickel  | Silver (C) | 3527000N001-000 |
| 3      | 2.81       | 2.56 | Nickel  | Silver (C) | UG-534B/U       |

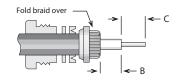
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information. Note: Not all LC series plugs and jacks are intermateable. Contact factory for compatibility information on specific plug/jack combinations.

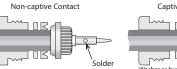


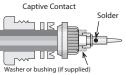


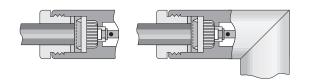
- 1) Trim cable jacket to dimension A. Slide backnut, washer, V-gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp.
- 2) Comb braid wires out straight and fold back over front shoulder of braid clamp (braid wires should not overlap one another after folding). Trim braid wires flush with step of braid clamp. Trim cable dielectric and center conductor to dimensions B and C.
- 3) If support insulator is provided for RG-62 or 71 cable, insert into hollow in dielectric. Assemble rear bushing or washer (if supplied), rear insulator (if captive contact) and contact, and solder contact to center conductor. Rear of contact should be flush with cable dielectric end. For right angle connectors with access cap, omit this step entirely.
- 4) Insert prepared cable and hardware into body and tighten backnut. For right angle connectors with access cap, solder center conductor into slot in contact and tighten access cap.











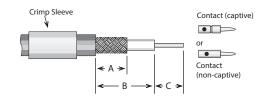
|      |              |              | III Codes For |   | ASSEMBLY I |              |              |             |
|------|--------------|--------------|---------------|---|------------|--------------|--------------|-------------|
| Code | A            | В            | с             |   | Code       | A            | В            | С           |
| A/01 | .375 (3/8)   | .047 (3/64)  | .203 (13/64)  |   | A/20       | .375 (3/8)   | .047 (3/64)  | .172 (11/64 |
| A/02 | .375 (3/8)   | .109 (7/64)  | .203 (13/64)  |   | A/21       | .500 (1/2)   | .313 (5/16)  | .172 (11/64 |
| A/03 | .438 (7/16)  | .250 (1/4)   | .188 (3/16)   |   | A/22       | .375 (3/8)   | .188 (3/16)  | .141 (9/64) |
| A/04 | .281 (9/32)  | .047 (3/64)  | .125 (1/8)    |   | A/23       | .438 (7/16)  | .078 (5/64)  | .172 (11/64 |
| A/05 | .313 (5/16)  | .125 (1/8)   | .109 (7/64)   |   | A/24       | .500 (1/2)   | .094 (3/32)  | .141 (9/64) |
| A/06 | .594 (19/32) | .391 (25/64) | .156 (5/32)   |   | A/25       | .438 (7/16)  | .141 (9/64)  | .172 (11/64 |
| A/07 | .375 (3/8)   | .047 (3/64)  | .125 (1/8)    |   | A/26       | .625 (5/8)   | .281 (9/32)  | .250 (1/4)  |
| A/08 | .281 (9/32)  | .109 (7/64)  | .094 (3/32)   |   | A/27       | .688 (11/16) | .281 (9/32)  | .125 (1/8)  |
| A/09 | .344 (11/32) | .109 (7/64)  | .094 (3/32)   |   | A/28       | .656 (21/32) | .297 (19/64) | .250 (1/4)  |
| A/10 | .406 (13/32) | .109 (7/64)  | .203 (13/64)  |   | A/29       | .688 (11/16) | .125 (1/8)   | .313 (5/16) |
| A/11 | .500 (1/2)   | .281 (9/32)  | .156 (5/32)   |   | A/30       | .688 (11/16) | .469 (15/32) | .156 (5/32) |
| A/12 | .343         | .040         | .219          |   | A/31       | .700 (21/32) | .453 (29/64) | .250 (1/4)  |
| A/13 | .375 (3/8)   | .125 (1/8)   | .156 (5/32)   |   | A/32       | .313 (5/16)  | .078 (5/64)  | .188 (3/16) |
| A/14 | .355         | .090         | .188 (3/16)   |   | A/33       | .250 (1/4)   | .078 (5/64)  | .094 (3/32) |
| A/15 | .425         | .094 (3/32)  | .259          |   | A/34       | .250 (1/4)   | .062 (1/16)  | .109 (7/64) |
| A/16 | .328 (21/64) | .094 (3/32)  | .188 (3/16)   |   | A/35       | .837         | .575         | .150        |
| A/17 | .375 (3/8)   | .109 (7/64)  | .125 (1/8)    |   | A/36       | .450         | .250         | .150        |
| A/18 | .375 (3/8)   | .062 (1/16)  | .172 (11/64)  |   | A/37       | .281         | .038         | .188        |
| A/19 | .375 (3/8)   | .188 (3/16)  | .094 (3/32)   | ſ | A/38       | .281         | .069         | .156        |

Trim Codes For Assembly Procedure A



#### **Assembly Procedure B**

1) Trim cable per chart. Slide crimp sleeve back onto cable.



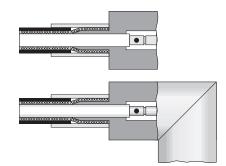
 If support insulator is provided for RG-62 or 71 cable, insert into hollow in dielectric. Solder contact onto center conductor; back of contact flush with trimmed end of cable dielectric (omit this step for right angle connectors with access caps).
 Flare cut end of braid slightly by rotating dielectric.



- Insert cable/contact into rear of body, with all braid wires on outside of crimp tail.
  a) For captive contact connectors, push cable in until contact snaps into insulator.
  - b) For noncaptive contact connectors, push cable in until cable dielectric bottoms in connector.
  - c) For right angle or tee connectors with access caps, push cable in until end of braid touches connector body shoulder, and cable center conductor rests in contact slot.

Trim excess braid wires even with shoulder of body. Slide crimp sleeve forward until flush with body and crimp (see page 211 for hex die sizes).

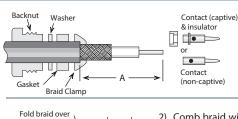
For right angle or tee connectors with access caps: Solder center conductor into contact slot, assemble insulator disc (if supplied), then press cap into body until seated or screw into place.



|      | Trim Codes For Assembly Procedure B |      |      |      |      |      |      |  |
|------|-------------------------------------|------|------|------|------|------|------|--|
| Code | A                                   | В    | с    | Code | A    | В    | С    |  |
| B/01 | .320                                | .470 | .140 | B/20 | .250 | .375 | .156 |  |
| B/02 | .422                                | .578 | .172 | B/21 | .425 | .550 | .156 |  |
| B/03 | .406                                | .500 | .187 | B/22 | .375 | .500 | .156 |  |
| B/04 | .285                                | .505 | .140 | B/23 | .281 | .469 | .125 |  |
| B/05 | .335                                | .460 | .140 | B/24 | .250 | .700 | .109 |  |
| B/06 | .187                                | .437 | .219 | B/25 | .343 | .775 | .125 |  |
| B/07 | .422                                | .610 | .156 | B/26 | .343 | .437 | .109 |  |
| B/08 | .422                                | .562 | .219 | B/27 | .313 | .437 | .187 |  |
| B/09 | .313                                | .610 | .203 | B/28 | .219 | .271 | .078 |  |
| B/10 | .280                                | .436 | .187 | B/29 | .200 | .320 | .060 |  |
| B/11 | .430                                | .542 | .156 | B/30 | .500 | .650 | .219 |  |
| B/12 | .300                                | .434 | .156 | B/31 | .350 | .840 | .150 |  |
| B/13 | .300                                | .447 | .156 | B/32 | .175 | .260 | .095 |  |
| B/14 | .420                                | .645 | .187 | B/33 | .195 | .270 | .045 |  |
| B/15 | .300                                | .420 | .120 | B/34 | .150 | .250 | .105 |  |
| B/16 | .312                                | .609 | .125 | B/35 | .195 | .280 | .170 |  |
| B/17 | .250                                | .500 | .156 | B/36 | .150 | .325 | .090 |  |
| B/18 | .437                                | .562 | .109 | B/37 | .195 | .295 | .075 |  |
| B/19 | .343                                | .437 | .156 | B/38 | .150 | .225 | .095 |  |
|      |                                     |      | •    | B/39 | .250 | .300 | .135 |  |



### **Assembly Procedure C**



B

Non-captive

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Captive

C→

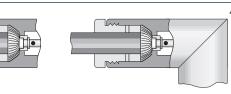
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1) Trim cable jacket to dimension A. Slide backnut, washer, gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp.

| 2) Comb braid wires out straight and fold back over front |
|---|
| shoulder of braid clamp (braid wires should not overlap   |
| one another after folding). Trim braid wires flush with   |
| edge of braid clamp. Trim cable dielectric and center     |
| conductor to dimensions B and C.                          |

3) If support insulator is provided for RG-62 or 71 cable, insert into hollow in dielectric. Assemble rear insulator (if captive contact) and contact, and solder contact to center conductor. Rear of contact should be flush with cable dielectric end.

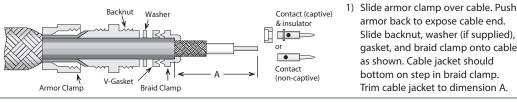


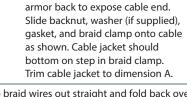
B

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Captive 4) Insert prepared cable and hardware into body and tighten backnut. For right angle connectors with access cap, solder cable center conductor to slot in contact and tighten access cap.

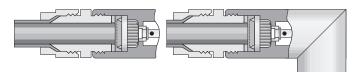
#### **Assembly Procedure D**





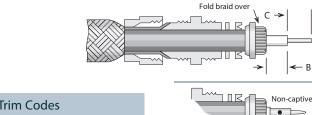
2) Comb braid wires out straight and fold back over front shoulder of braid clamp (braid wires should not overlap one another after folding). Trim braid wires flush with edge of braid clamp. Trim cable dielectric and center conductor to dimensions B and C.

3) Assemble rear insulator (if captive contact) and contact, and solder contact to center conductor. Rear of contact should be flush with cable dielectric end.



4) Insert prepared cable and hardware into body and tighten backnut. Trim armor to fit between armor clamp and braid clamp. Tighten armor clamp.

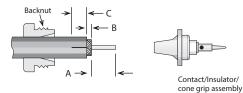
|      | Trim Codes   |             |             |  |  |  |
|------|--------------|-------------|-------------|--|--|--|
| Code | А            | В           | С           |  |  |  |
| C/01 | .656 (21/32) | .141 (9/64) | .250 (1/4)  |  |  |  |
| C/02 | .500 (1/2)   | .125 (1/8)  | .250 (1/4)  |  |  |  |
| C/03 | .450         | .136        | .187        |  |  |  |
| C/04 | .375 (3/8)   | .109 (7/64) | .125 (1/8)  |  |  |  |
| C/05 | .375 (3/8)   | .062 (1/16) | .250 (1/4)  |  |  |  |
| C/06 | .500 (1/2)   | .188 (3/16) | .125 (1/8)  |  |  |  |
| C/07 | .575         | .438        | .094        |  |  |  |
| C/08 | .625 (5/8)   | .141 (9/64) | .219 (7/32) |  |  |  |
|      |              |             |             |  |  |  |



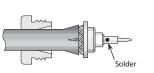
|      | Trim Codes   |             |              |  |  |  |  |
|------|--------------|-------------|--------------|--|--|--|--|
| Code | А            | В           | С            |  |  |  |  |
| D/01 | .375 (3/8)   | .047 (3/64) | .250 (1/4)   |  |  |  |  |
| D/02 | .500 (1/2)   | .188 (3/16) | .219 (7/32)  |  |  |  |  |
| D/03 | .344 (11/32) | .047 (3/64) | .219 (7/32)  |  |  |  |  |
| D/04 | .313 (5/16)  | .047 (3/64) | .172 (11/64) |  |  |  |  |
| D/05 | .625 (5/8)   | .281 (9/32) | .250 (1/4)   |  |  |  |  |
| D/06 | .313 (5/16)  | .062 (1/16) | .109 (7/64)  |  |  |  |  |



#### Assembly Procedure E

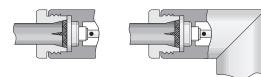


 Slide backnut onto cable as shown. Trim cable to dimensions A and B as shown. Slit jacket to dimension C in two places, 180° apart.



Trim Codes Code В С А E/01 .250 (1/4) .141 (9/64) .313 (5/16) .250 (1/4) E/02 .219 (7/32) .063 (1/16) E/03 .250 (1/4) .031 (1/32) .250 (1/4)

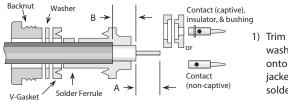
 Slide cone/insulator/contact assembly under braid until braid is flush with shoulder. Solder contact to center conductor.

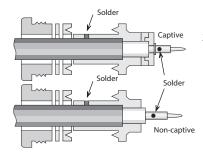


 Insert prepared cable and hardware into body; tighten assembly by holding nut stationary and turning body.

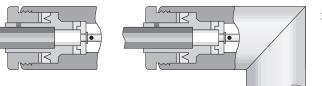
#### Assembly Procedure F

|      | Trim Codes  |              |
|------|-------------|--------------|
| Code | A           | В            |
| F/01 | .250 (1/4)  | .219 (7/32)  |
| F/02 | .250 (1/4)  | .172 (11/64) |
| F/03 | .188 (3/16) | .188 (3/16)  |
| F/04 | .109 (7/64) | .265 (17/64) |
| F/05 | .156 (5/32) | .250 (1/4)   |
| F/06 | .219 (7/32) | .250 (1/4)   |
| F/07 | .156 (5/32) | .172 (11/64) |
| F/08 | .109 (7/64) | .219 (7/32)  |





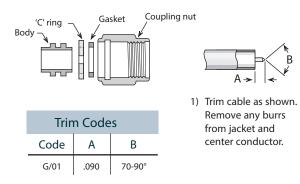
- Trim cable per chart. Slide backnut, washer, v-gasket, and solder ferrule onto cable. Trimmed end of cable jacket should bottom on step in solder ferrule.
- 2) Solder ferrule to cable jacket as shown. Retrim cable dielectric to proper length if it has extruded from soldering heat. Slide bushing and rear insulator over cable dielectric if captive contact. Solder contact onto center conductor; back of contact flush with trimmed end of cable dielectric.

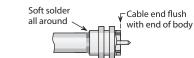


 Insert prepared cable and hardware into body and tighten backnut.

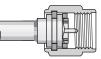


#### **Assembly Procedure G**

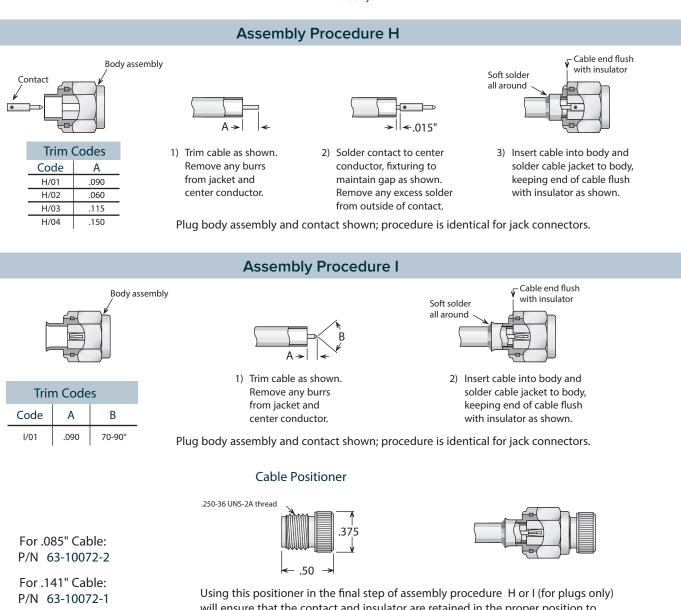




 Soft solder cable jacket to body, making sure that end of cable is flush with end of body. After solder joint has cooled, retrim any protruding dielectric flush with end of body.



 Assemble 'C' ring and gasket to body. Compress 'C' ring and slide body assembly into coupling nut until ring is seated in groove.



Using this positioner in the final step of assembly procedure H or I (for plugs only) will ensure that the contact and insulator are retained in the proper position to meet MIL-C-39012 requirements. The positioner should be screwed finger-tight into the mating end of the connector (as shown at right) before the cable jacket is soldered to the body assembly.

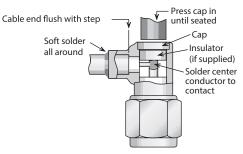


#### Assembly Procedure J

| Trim Codes |      |      |  |  |  |
|------------|------|------|--|--|--|
| Code       | А    | В    |  |  |  |
| J/01       | .109 | .047 |  |  |  |
| J/02       | .059 | .039 |  |  |  |
| J/03       | .059 | .079 |  |  |  |
| J/04       | .050 | .059 |  |  |  |

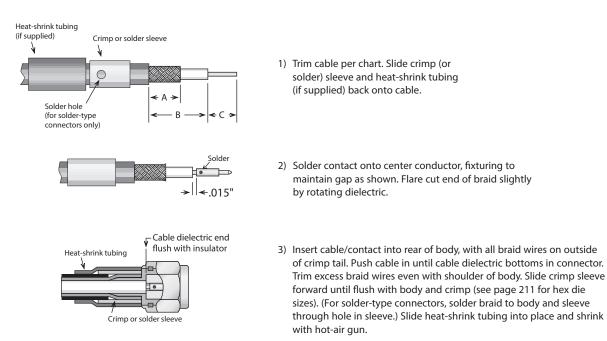
→ | < B

 Trim cable as shown. Remove any burrs from jacket and center conductor.



 Soft solder cable jacket to body, making sure that end of cable is flush with step in body.
 Solder center conductor into contact slot, assemble insulator disc (if supplied), then press cap into body until seated or screw into place.

#### **Assembly Procedure K**



Plug body assembly and contact shown; procedure is identical for jack connectors.

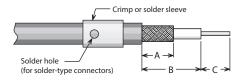
|      |      |      | Trim C | odes |      |      |      |
|------|------|------|--------|------|------|------|------|
| Code | А    | В    | С      | Code | А    | В    | С    |
| K/01 | .250 | .270 | .110   | K/07 | .220 | .290 | .135 |
| K/02 | .200 | .270 | .140   | K/08 | .420 | .620 | .090 |
| K/03 | .225 | .290 | .110   | K/09 | .090 | .135 | .160 |
| K/04 | .225 | .330 | .110   | K/10 | .250 | .415 | .115 |
| K/05 | .250 | .330 | .110   | K/11 | .250 | .400 | .150 |
| K/06 | .250 | .315 | .095   | K/12 | .282 | .390 | .140 |



#### Assembly Procedure L

|      | Trim Codes |      |      |  |  |
|------|------------|------|------|--|--|
| Code | Code A B C |      |      |  |  |
| L/01 | .250       | .438 | .109 |  |  |
| L/02 | .125       | .219 | .109 |  |  |
| L/03 | .234       | .344 | .109 |  |  |
| L/04 | .195       | .270 | .050 |  |  |
| L/05 | .095       | .155 | .050 |  |  |
| L/06 | .281       | .390 | .070 |  |  |

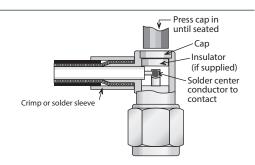
1) Trim cable per chart. Slide crimp (or solder) sleeve onto cable.



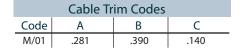
 Insert cable into rear of body, with all braid wires on outside of crimp tail. Push cable in until end of braid touches connector body shoulder and center conductor rests in contact slot.

Slide crimp sleeve forward until flush with body and crimp (see page 211 for hex die sizes). (For solder-type connectors, solder braid to body and sleeve through hole in sleeve.)

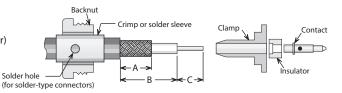
Solder center conductor into contact slot, assemble insulator disc (if supplied), then press cap into body until seated or screw into place.



#### Assembly Procedure M



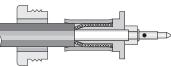
 Trim cable per chart. Slide crimp (or solder) sleeve and backnut onto cable.



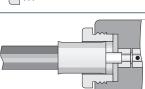
2) Flare cut end of braid slightly by rotating dielectric. Insert cable into rear of clamp, with all braid wires on outside of crimp tail.Slide insulator over cable dielectric until it is flush with front of clamp, and cable insulation bottoms inside insulator. Slide contact onto center conductor, with contact shoulder flush with front of insulator. Solder contact to center conductor.



 Slide crimp sleeve forward until flush with clamp shoulder; crimp as close to shoulder as possible. (see page 211 for hex die sizes). (For solder-type connectors, solder braid to body and sleeve through hole in sleeve.)



4) Insert prepared cable into back of body. Slide nut forward and tighten to 12–15 inch-pounds.





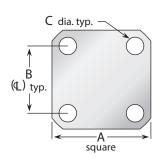
\* For Delta cable groups. See MIL-PRF-39012 specifications for dies sizes used with M39012 cable groups.

#### Crimp Tools For Flexible Cable

Frame only—P/N M22520/5-01 —Use with interchangeable dies listed below. Cable Group\* Hex Die Size Die Set P/N Closure 2, 3, 4 .429 hex, .400 wide M22520/5-61 А 5,6 .213 hex, .400 wide M22520/5-19 В 7 .255 hex, .400 wide M22520/5-19 A 9 .128 hex, .400 wide M22520/5-35 В В 10 .151 hex, .400 wide M22520/5-37 11 .105 hex, .400 wide M22520/5-33 В



#### Connector Flanges (Panel Mounted Connectors)

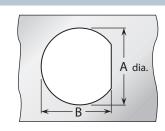


| 4-hole flanges             |                    |       |           |
|----------------------------|--------------------|-------|-----------|
| Figure                     | А                  | В     | С         |
| 04                         | 1/2                | .360  | .089      |
| 05                         | 1/2                | .340  | .102      |
| 07                         | 11/16              | .500  | #3-56 tap |
| 08                         | 11/16              | .500  | .136      |
| 09                         | 11/16              | .500  | .125      |
| 10                         | 11/16              | .500  | .120      |
| 12                         | 11/16              | .500  | .109      |
| 18                         | 3/4                | .531  | .136      |
| 26                         | 1                  | .718  | #6-32 tap |
| 27                         | 1                  | .718  | #4-40 tap |
| 30                         | 1                  | .718  | .166      |
| 32                         | 1                  | .718  | .136      |
| 32A                        | 1                  | .718  | .136*     |
| 33                         | 1                  | .718  | .125      |
| 34                         | 1 <sup>3</sup> /32 | .812  | .150      |
| 36                         | 1 <sup>3</sup> /16 | .906  | #6-32 tap |
| 39                         | 1 <sup>3</sup> /16 | .906  | .152      |
| 40                         | 1 <sup>3</sup> /16 | .906  | .125      |
| 45                         | 2                  | 1.437 | .257      |
| 91                         | .375               | .250  | .067      |
| 91A                        | .375               | .232  | .093      |
| * Countersunk to .245 dia. |                    |       |           |

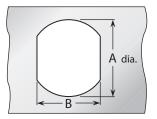
 $\begin{array}{c|c} & & & \\$ 

| 2-hole flanges |      |       |      |      |
|----------------|------|-------|------|------|
| Figure         | А    | В     | С    | D    |
| 92             | .223 | .481  | .625 | .102 |
| 92A            | .260 | .481  | .625 | .102 |
| 95             | .640 | 1.015 | 1.30 | .125 |

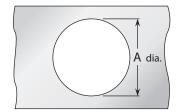
#### Panel Cutouts (Bulkhead Mounted Connectors)



| D-Hole |      |      |  |  |
|--------|------|------|--|--|
| Figure | А    | В    |  |  |
| 51     | .755 | .723 |  |  |
| 54     | .630 | .598 |  |  |
| 55     | .630 | .583 |  |  |
| 57     | .557 | .531 |  |  |
| 59     | .505 | .473 |  |  |
| 62     | .442 | .410 |  |  |
| 63     | .407 | .362 |  |  |
| 65     | .380 | .348 |  |  |
| 66     | .319 | .292 |  |  |
| 67     | .255 | .236 |  |  |
| 68     | .195 | .176 |  |  |



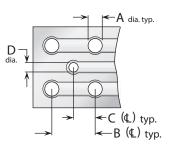
| Double D-Hole |      |      |  |  |
|---------------|------|------|--|--|
| Figure A B    |      |      |  |  |
| 69            | .755 | .692 |  |  |
| 72            | .630 | .536 |  |  |
| 75            | .380 | .341 |  |  |
| 84            | .319 | .278 |  |  |



| Round Hole |      |  |  |  |
|------------|------|--|--|--|
| Figure     | А    |  |  |  |
| 82         | .255 |  |  |  |
| 89         | .380 |  |  |  |

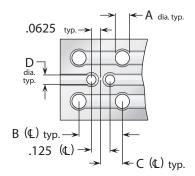
## **Mounting Figures**

#### P.C. Board Drilling



(PCB traces are shown for illustrative purpose only, and are not representative of actual circuitry.)

|        | Coaxial connectors |      |      |      |  |
|--------|--------------------|------|------|------|--|
| Figure | А                  | В    | С    | D    |  |
| PCB01  | .067               | .400 | .200 | .045 |  |
| PCB02  | .045               | .500 | .250 | .045 |  |
| PCB03  | .067               | .300 | .150 | .035 |  |
| PCB05  | .067               | .200 | .100 | .055 |  |
| PCB06  | .067               | .200 | .100 | .045 |  |
| PCB07  | .045               | .177 | .088 | .045 |  |
| PCB08  | .032               | .100 | .050 | .032 |  |



(PCB traces are shown for illustrative purpose only, and are not representative of actual circuitry.)

| Twinax Connectors |      |      |      |      |
|-------------------|------|------|------|------|
| Figure            | А    | В    | С    | D    |
| PCB04             | .045 | .500 | .250 | .045 |



## Cable Groups

#### **Delta Cable Groups**

| Gro | up | Cables  |
|-----|----|---|
| 2.0 | 1A | RG-5, 5A, 5B, 21, 21A; M17/73, /162                       |
| 1   | 1B |   |
| I   |    | RG-6, 6A; M17/2   |
|     | 1C | RG-143, 143A, 212, 222; M17/73, /112, /162                |
| 2   | 2A | RG-8, 8A, 213; M17/74                                     |
|     | 2B | RG-11, 11A; M17/6   |
| -   | 3A | RG-9, 9A, 9B, 214; M17/75                                 |
| 3   | 3B | RG-13A, 216; M17/77                                       |
|     | 3C | RG-225; M17/127   |
|     | 4  | RG-393; M17/127   |
|     | 5  | RG-58, 58A, 58C, 141, 141A; M17/28, /111                  |
| 6   | 6A | RG-55A, 142, 142A, 223, 400; M17/60, /84, /128            |
|     | 6B | RG-55, 55B, 142B; M17/60, /84                             |
| 7   | 7A | RG-59, 59A, 59B, 62, 62A, 62B, 62C, 210; M17/29, /30, /97 |
|     | 7B | RG-71, 71A, 71B; M17/90                                   |
| 8   | 8A | RG-122; M17/54  |
|     | 8B | RG-180, 180A, 180B, 195; M17/95, /137                     |
| 9   | 9A | RG-174, 188, 188A, 316; M17/152                           |
| -   | 9B | RG-179A, 179B, 187, 187A; M17/94, /136                    |
| 1   | 0  | Double-Shielded RG-174, 316; M17/152                      |
| 1   | 1  | RG-178, 178A, 178B, 196, 196A; M17/93                     |
| 1   | 2  | .250" semi-rigid; RG-401; M17/129                         |
| 1.  | 3  | .141" semi-rigid; RG-402; M17/130                         |
| 14  | 4  | .085" semi-rigid; RG-405; M17/133                         |
| 1:  | 5  | RG-10, 12, 215; M17/6, /74                                |
| 10  | б  | RG-14A, 217; M17/78, /165                                 |
| 1   | 7  | RG-17A, 218   |
| 18  | 8  | RG-18A, 219   |
| 19  | 9  | RG-115A   |
| 2   | 0  | RG-118A, 228A   |
| 2   | 1  | RG-126  |
| 2   | 2  | RG-302  |
| 2   | 3  | RG-303  |
| 24  | 4  | RG-304  |
| 2   | 5  | Special 8X cable; contact factory for details.            |
| 2   | б  | Belden 8281   |
| 2   | 7  | RG-108, 108A; M17/45                                      |
| 2   | 8  | RG-22, 22A, 22B; M17/15                                   |
| 2   | 9  | Belden 9207; Dearborn 6207; IBM 7362211                   |
| 3   | 0  | M17/176   |
| 3   |    | AT&T 735A   |

| Cable            | Group | Cable         | Group |
|------------------|-------|---------------|-------|
| RG-5, 5A, B      | 1A    | RG-225        | 3C    |
| RG-6, 6A         | 1B    | RG-228A       | 20    |
| RG-8, 8A         | 2A    | RG-302        | 22    |
| RG-9, 9A, B      | 3A    | RG-303        | 23    |
| RG-10            | 15    | RG-304        | 24    |
| RG-11, 11A       | 2B    | RG-316        | 9A    |
| RG-12            | 15    | RG-316DS      | 10    |
| RG-13A           | 3B    | RG-393        | 4     |
| RG-14A           | 16    | RG-400        | 6A    |
| RG-17A           | 17    | RG-401        | 12    |
| RG-18A           | 18    | RG-402        | 13    |
| RG-21, 21A       | 1A    | RG-405        | 14    |
| RG-22, 22A, B    | 28    | M17/2         | 1B    |
| RG-55, 55B       | 6B    | M17/6         | 2B    |
| RG-55A           | 6A    | M17/15        | 28    |
| RG-58, 58A, C    | 5     | M17/28        | 5     |
| RG-59, 59A, B    | 7A    | M17/29        | 7A    |
| RG-62, 62A, B, C | 7A    | M17/30        | 7A    |
| RG-71, 71A, B    | 7B    | M17/45        | 27    |
| RG-108, 108A     | 27    | M17/73        | 1A    |
| RG-115A          | 19    | M17/162       | 1A    |
| RG-118A          | 20    | M17/112       | 1C    |
| RG-122           | 8A    | M17/74        | 2A    |
| RG-126           | 21    | M17/75        | 3A    |
| RG-141, 141A     | 5     | M17/127       | 3C    |
| RG-142, 142A     | 6A    | M17/77        | 3B    |
| RG-142B          | 6B    | M17/60        | 6A    |
| RG-143, 143A     | 1C    | M18/84        | 6A    |
| RG-174           | 9A    | M17/128       | 6A    |
| RG-174DS         | 10    | M17/97        | 7A    |
| RG-178, 178A, B  | 11    | M17/54        | 8A    |
| RG-179A, 179B    | 9B    | M17/95        | 8B    |
| RG-180, 180A, B  | 8B    | M17/137       | 8B    |
| RG-187, 187A     | 9B    | M17/152       | 9A    |
| RG-188, 188A     | 9A    | M17/93        | 11    |
| RG-195           | 8B    | M17/129       | 12    |
| RG-196, 196A     | 11    | M17/130       | 13    |
| RG-210           | 7A    | M17/133       | 14    |
| RG-212           | 1C    | M17/78        | 16    |
| RG-213           | 2A    | M17/165       | 16    |
| RG-214           | 3A    | M17/176       | 30    |
| RG-215           | 15    | AT&T 735A     | 31    |
| RG-217           | 16    | Belden 8281   | 26    |
| RG-218           | 17    | Belden 9207   | 29    |
| RG-219           | 18    | Dearborn 6207 | 29    |
| RG-222           | 1C    | IBM 7362211   | 29    |

Note: MIL-PRF-39012 QPL connectors have cable groups defined by the MIL specification, not the Delta cable groups shown here. See page 185 for M39012 cable groups.



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