Delta C series connectors are medium-size, 50Ω impedance connectors with two-stud bayonet coupling and good power handling capability, particularly those connectors noted as high-voltage types. They are best suited for use with cables in the range of .350" to .450" diameter, but are available for other cables from .100" to over 1" diameter. Our extensive line of C receptacles includes configurations for virtually any packaging requirement, and we can supply any adapter or accessory you need to complete your system design. Adapters between C and other series are shown starting on page 176.

As with our other connector series, Delta’s customer-driven design results in C series connectors with practical and unique features that make your design and assembly process easier. Some of these include:

- High-voltage types for high-power applications.
- Cable plugs and jacks for armored cables.

Our C series product line is still growing, so please call if you don’t see what you need.

**C Configurations**

<table>
<thead>
<tr>
<th>Straight Cable Plugs</th>
<th>2</th>
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</thead>
<tbody>
<tr>
<td>Right Angle Cable Plugs</td>
<td>2</td>
</tr>
<tr>
<td>Straight Cable Jacks</td>
<td>3</td>
</tr>
<tr>
<td>Bulkhead Cable Jacks</td>
<td>3</td>
</tr>
<tr>
<td>Panel Cable Jacks</td>
<td>4</td>
</tr>
<tr>
<td>Panel Jack Receptacles (square flange)</td>
<td>4</td>
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<tr>
<td>Dummy Receptacles</td>
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<td>Panel Plug Receptacles</td>
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<td>Bulkhead Jack Receptacles</td>
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<tr>
<td>Dust Caps</td>
<td>6</td>
</tr>
<tr>
<td>In-Series Adapters</td>
<td>6</td>
</tr>
</tbody>
</table>

**C Specifications***

Electrical:
Nominal Impedance: 50 ohms.
Frequency Range: DC–11 GHz (standard); DC–2 GHz (high-voltage).
Voltage Rating: 1,000 volts RMS (standard); 3,000 volts RMS (high-voltage).
Dielectric Withstanding Voltage: 3,000 VRMS.
Insulation Resistance: 5,000 megohms.

Materials/Finishes:
Insulators: Teflon per ASTM D1710.
Male Contacts: Brass per ASTM-B-16.
Female Contacts: Beryllium Copper per ASTM-B-196.
Contact Plating: Silver - ASTM B700
Gold - MIL-DTL-45204.
Gaskets: Silicone rubber per ZZ-R-765, Class II, Grade 50.

All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-A-55339, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

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

**Some proportions altered to illustrate detail.
### C Cable Plugs

#### Straight Plug - Military Clamp For Flexible Cable

<table>
<thead>
<tr>
<th>Cable Group</th>
<th>Figure</th>
<th>Dimensions</th>
<th>Plating</th>
<th>Delta P/N</th>
<th>Assembly Procedure/Trim Code</th>
</tr>
</thead>
<tbody>
<tr>
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* High-voltage type.

---

#### Right Angle Plug - Military Clamp For Flexible Cable

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* See page 209 for cable groups. * Assembly procedures start on page 210. * (C) in contact plating column indicates captive contact. * See page 6 for alternate body plating information.
### Straight Jack - Military Clamp For Flexible Cable

<table>
<thead>
<tr>
<th>Cable Group</th>
<th>Figure</th>
<th>Dimensions A</th>
<th>Dimensions B</th>
<th>Dimensions C</th>
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### Bulkhead Jack - Military Clamp For Flexible Cable

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- See page 209 for cable groups.
- Assembly procedures start on page 210.
- See page 208 for mounting dimensions.
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.
Panel Jack - Military Clamp For Flexible Cable

<table>
<thead>
<tr>
<th>Cable Group</th>
<th>Fig.</th>
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<th>B</th>
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Panel Jack Receptacles - Square Flange

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<th>C</th>
<th>D</th>
<th>Mounting Figure</th>
<th>Plating Body</th>
<th>Contact</th>
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<th>Assembly Procedure/Trim Code</th>
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See page 209 for cable groups.  • Assembly procedures start on page 210.  • See page 208 for mounting dimensions.  (C) in contact plating column indicates captive contact.  • See page 6 for alternate body plating information.
Panel Plug Receptacle - Square Flange

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Bulkhead Jack Receptacles

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<td>B</td>
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- See page 208 for mounting dimensions.
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.
## Bulkhead Jack - Jack Adapter

![Diagram of Bulkhead Jack - Jack Adapter](image)

### Dimensions

<table>
<thead>
<tr>
<th>Figure</th>
<th>Dimensions</th>
<th>Max. Panel</th>
<th>Mounting Figure</th>
<th>Plating</th>
<th>Delta P/N</th>
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### Straight, Right Angle & Tee Adapters

![Diagram of Straight, Right Angle & Tee Adapters](image)

### Dust Caps

![Diagram of Dust Caps](image)

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<th>Plating</th>
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<td>B: 3.50</td>
<td>.144</td>
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</table>

*C hermetically sealed. • See page 208 for mounting dimensions.

(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.
Assembly Procedures

Assembly Procedure A

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.

Trim Codes For Assembly Procedure A

<table>
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<th>C</th>
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<td>.203 (13/64)</td>
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<table>
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1) Trim cable per chart. Slide crimp sleeve back onto cable.

2) 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.

3) 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.
Assembly Procedures

Assembly Procedure C

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.

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

1) Slide armor clamp over cable. Push armor back to expose cable end. Slide backnut, washer (if supplied), gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp. Trim cable jacket to dimension A.

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

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Assembly Procedure E

1) 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.

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

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

---

Trim Codes

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Assembly Procedure F

1) 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.

3) Insert prepared cable and hardware into body and tighten backnut.

---

Trim Codes

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**Assembly Procedure G**

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

2) 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.

3) Assemble ‘C’ ring and gasket to body. Compress ‘C’ ring and slide body assembly into coupling nut until ring is seated in groove.

**Trim Codes**

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**Assembly Procedure H**

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

2) Solder contact to center conductor, fixturing to maintain gap as shown. Remove any excess solder from outside of contact.

3) Insert cable into body and solder cable jacket to body, keeping end of cable flush with insulator as shown.

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

**Trim Codes**

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**Assembly Procedure I**

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

2) Insert cable into body and solder cable jacket to body, keeping end of cable flush with insulator as shown.

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

**Cable Positioner**

For .085” Cable:
P/N 63-10072-2

For .141” Cable:
P/N 63-10072-1

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**

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

2) 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.

**Trim Codes**

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**Assembly Procedure K**

1) Trim cable per chart. Slide crimp (or solder) sleeve and heat-shrink tubing (if supplied) back onto cable.

2) Solder contact onto center conductor, fixtureing to maintain gap as shown. Flare cut end of braid slightly by rotating dielectric.

3) Insert cable/contact into rear of body, with all braid wires on outside of crimp tail. Push cable in until cable dielectric bottoms in connector. 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 solder-type connectors, solder braid to body and sleeve through hole in sleeve.) Slide heat-shrink tubing into place and shrink with hot-air gun.

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

**Trim Codes**

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Assembly Procedure L

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

2) 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

1) 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.

3) 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.

---

Crimp Tools For Flexible Cable

Frame only—P/N M22520/5-01 —Use with interchangeable dies listed below.

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* For Delta cable groups. See MIL-PRF-39012 specifications for dies sizes used with M39012 cable groups.
### 4-hole flanges

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* Countersunk to .245 dia.

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### Panel Cutouts (Bulkhead Mounted Connectors)

### P.C. Board Drilling

### Coaxial connectors

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

### Twinax Connectors

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

### Twinax Connectors

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### Delta Cable Groups

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<tr>
<td>1A</td>
<td>RG-5, 5A, 5B, 21, 21A; M17/73, /162</td>
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<td>1B</td>
<td>RG-6, 6A; M17/2</td>
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<tr>
<td>1C</td>
<td>RG-143, 143A, 212, 222; M17/73, /112, /162</td>
</tr>
<tr>
<td>2A</td>
<td>RG-8, 8A, 213; M17/74</td>
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<tr>
<td>2B</td>
<td>RG-11, 11A; M17/6</td>
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<tr>
<td>3A</td>
<td>RG-9, 9A, 9B, 214; M17/75</td>
</tr>
<tr>
<td>3B</td>
<td>RG-13A, 216; M17/77</td>
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<tr>
<td>3C</td>
<td>RG-225; M17/127</td>
</tr>
<tr>
<td>4</td>
<td>RG-393; M17/127</td>
</tr>
<tr>
<td>5</td>
<td>RG-58, 58A, 58C, 141, 141A; M17/28, /111</td>
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<tr>
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<td>RG-55A, 142, 142A, 223, 400; M17/60, /84, /128</td>
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<td>RG-55, 55B, 142B; M17/60, /84</td>
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<td>7B</td>
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<td>RG-122; M17/54</td>
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<td>RG-180, 180A, 180B, 195; M17/95, /137</td>
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<td>RG-174, 178, 188A, 316; M17/152</td>
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<td>RG-115A</td>
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<td>RG-108, 108A; M17/45</td>
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<td>28</td>
<td>RG-22, 22A, 22B; M17/15</td>
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<tr>
<td>30</td>
<td>M17/176</td>
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<td>31</td>
<td>AT&amp;T 735A</td>
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### Cable Group Finder

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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.
Warranty

We warrant our parts to be free of defects and workmanship for one year from purchase. During that time we will repair or replace (at our option) any parts found to be defective. The warranty does not apply to parts that have been modified, used in conditions exceeding Seller’s, or military specifications, or disassembled. We will not, under any circumstances, be responsible for consequential or incidental damages or installation costs. No other warranties apply, and no other liability may be assumed or extended by representatives or distributors. The terms of the applicable warranty or warranties, as the case may be, as set forth herein are the sole and exclusive warranty terms that shall have any force or effect in the any product order, resulting from the quotation and such terms and in lieu of all other warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose, which are hereby expressly excluded.

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Returns will be accepted only with a Return Authorization number issued by Delta, and are subject to inspection and acceptance upon arrival. Restocking charges will be determined prior to issuance of Return Authorization. All claims for shortages must be made within 30 days of receipt by customer.

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