



# AMP & ELCON Power Connector Layout Forms

RoHS  
Ready 

 **Tyco Electronics**  
Our commitment. Your advantage.

**Table of Contents**

**Disclaimer**

While Tyco Electronics Corporation and its affiliates referenced herein ("Tyco Electronics") have made every reasonable effort to ensure the accuracy of the information in this catalog, Tyco Electronics does not guarantee that it is error-free, nor does Tyco Electronics make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current.

Tyco Electronics reserves the right to make any adjustments to the information contained herein at any time without notice. Tyco Electronics expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. Tyco Electronics' only obligations are those in the Tyco Electronics Standard Terms and Conditions of Sale, and in no case will Tyco Electronics be responsible for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of its products. Users should independently evaluate the suitability of, and test each product for, their application.

The dimensions, specifications, designs, construction, materials and processes in this catalog are for reference purposes only and are subject to change without notice. Please consult Tyco Electronics for the most current product information.

The export of certain Tyco Electronics products is restricted by the Arms Export Control Act (Title 22, U.S.C. Sec 2751, et seq.) or the Export Administration Act of 1979, as amended (Title 50, U.S.C., App. 2401 et seq.). Orders may be subject to export approval by the U.S. Government. Buyer must comply with all applicable export laws of all applicable jurisdictions.

© Copyright 2007, 2006, and 2005 by Tyco Electronics Corporation. All International Rights Reserved.

AMP, ELCON, FLATPAQ, MINIPAK, MULTI-BEAM XL, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

Other products, logos, and company names mentioned herein may be trademarks of their respective owners.

MULTI-BEAM XL Custom Connector Worksheet . . . . . 3  
 MINIPAK Custom Connector Worksheet . . . . . 4  
 FLATPAQ Connector Layout Form . . . . . 5  
 Mini Drawer Connector Pin Side Layout Form . . . . . 6  
 Mini Drawer Connector Socket Side Layout Form . . . . . 7  
 Lower Drawer Connector Pin Side Layout Form . . . . . 8  
 Lower Drawer Connector Socket Side Layout Form . . . . . 9  
 75A Middle Drawer Connector Pin Side Layout Form . . . . . 10  
 75A Middle Drawer Connector Socket Side Layout Form . . . . . 11  
 125A Middle Drawer Connector Pin Side Layout Form . . . . . 12  
 125A Middle Drawer Connector Socket Side Layout Form . . . . . 13  
 200A Middle Drawer Connector Pin Side Layout Form . . . . . 14  
 200A Middle Drawer Connector Socket Side Layout Form . . . . . 15  
 Square Drawer Connector Pin Side Layout Form . . . . . 16  
 Square Drawer Connector Socket Side Layout Form . . . . . 17  
 Top Drawer Connector Pin Side Layout Form . . . . . 18  
 Top Drawer Connector Socket Side Layout Form . . . . . 19  
 Double Drawer Connector Pin Side Layout Form . . . . . 20  
 Double Drawer Connector Socket Side Layout Form . . . . . 21  
 DualPower Drawer Connector Pin Side Layout Form . . . . . 22  
 DualPower Drawer Connector Socket Side Layout Form . . . . . 23  
 QuadPower Drawer Connector Pin Side Layout Form . . . . . 24  
 QuadPower Drawer Connector Socket Side Layout Form . . . . . 25  
 In-Line QuadPower Drawer Connector Pin Side Layout Form . . . . . 26  
 In-Line QuadPower Drawer Connector Socket Side Layout Form . . . . . 27  
 W5 Power Drawer Connector Pin Side Layout Form . . . . . 28  
 W5 Power Drawer Connector Socket Side Layout Form . . . . . 29  
 HV8P Drawer Connector Pin Side Layout Form . . . . . 30  
 HV8P Drawer Connector Socket Side Layout Form . . . . . 31  
 P10S0 Drawer Connector Pin Side Layout Form . . . . . 32  
 P10S0 Drawer Connector Socket Side Layout Form . . . . . 33  
 P10S22 Drawer Connector Pin Side Layout Form . . . . . 34  
 P10S22 Drawer Connector Socket Side Layout Form . . . . . 35  
 P12S12 Drawer Connector Pin Side Layout Form . . . . . 36  
 P12S12 Drawer Connector Socket Side Layout Form . . . . . 37  
 P0S30 Drawer Connector Pin Side Layout Form . . . . . 38  
 P0S30 Drawer Connector Socket Side Layout Form . . . . . 39

**Restriction on the use of Hazardous Substances (RoHS)**

At Tyco Electronics, we're ready to support your RoHS requirements. We've assessed more than 1.5 million end items/components for RoHS compliance, and issued new part numbers where any change was required to eliminate the restricted materials. Part numbers in this catalog are identified as:

**RoHS Compliant** — Part numbers in this catalog are RoHS Compliant, unless marked otherwise. These products comply with European Union Directive 2002/95/EC as amended 1 January 2006 that restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in certain electrical and electronic products sold into the EU as of 1 July 2006.

NOTE: For purposes of this Catalog, included within the definition of RoHS Compliant are products that are clearly "Out of Scope" of the RoHS Directive such as hand tools and other non-electrical accessories.

NOTE: Information regarding RoHS compliance is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change. For latest compliance status, refer to our website referenced at right.

**Getting the Information You Need**

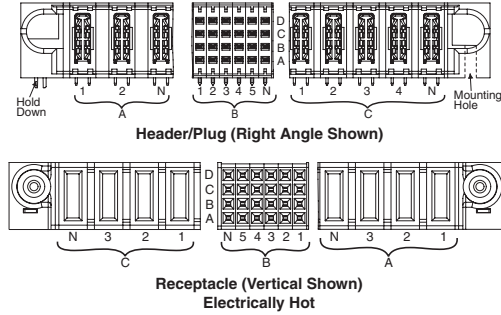
Our comprehensive on-line RoHS Customer Support Center provides a forum to answer your questions and support your RoHS needs. A RoHS FAQ (Frequently Asked Questions) is available with links to more detailed information. You can also submit RoHS questions and receive a response within 24 hours during a normal work week. The Support Center also provides:

- Cross-Reference from Non-compliant to Compliant Products
- Ability to browse RoHS Compliant Products in our on-line catalog
- Downloadable Technical Data Customer Information Presentation
- More detailed information regarding the definitions used above
- So whatever your questions when it comes to RoHS, we've got the answers at [www.tycoelectronics.com/leadfree](http://www.tycoelectronics.com/leadfree)

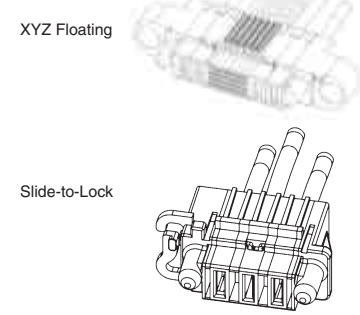


**MULTI-BEAM XL Custom Connector Worksheet**

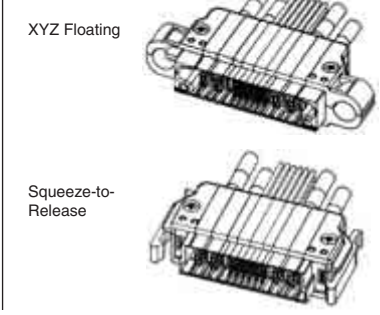
**PCB Mount**



**Cable Mount**



**Plugs**



To create a unique configuration for MULTI-BEAM XL Connectors simply complete this worksheet and forward it to your Tyco Electronics sales engineer.

**1. Application**  Board-to-Board  Cable-to-Board

**2. Gender**  Plug (Male)  Receptacle (Female)

**3. Orientation** Cable Only →  Blind Mate specify Floating or Slide-to-Lock receptacle  Latching  
 PCB Only →  Right Angle  Vertical

**4. Termination** (Cable Only)  
 Power  8 AWG  10 AWG  12 AWG  14 AWG  
 Signal  22 AWG  24 AWG  26 AWG

**5. Termination Style** (PCB Only)  Solder tail .135" [3.43mm]  Press-Fit .120" [3.05mm]  
 Solder tail .165" [4.19mm]  Press-Fit .135" [3.43mm]  
 Press-Fit .165" [4.19mm]

**6. Mounting to PCB**  Hold Downs (one on either end)  
 .122" [3.10mm] Mounting holes (Accepts #4 screws, right angle connectors only)  
 .150" [3.81mm] Mounting holes (Accepts #6 screws, right angle connectors only)

**7. Select # of Contacts**

**Section A:** (Power Contacts) \_\_\_ Enter # of Power Contacts (Loaded with standard length Power Contacts)  
 \_\_\_ Enter the position(s) to be loaded with Pre-mate contact (Receptacles only)  
 (Mate-First-Break-Last) ( i.e. #1,#3, etc.)  
 Contact Centerline Spacings:  .200" [5.08mm] (HDP)  
 .250" [6.35mm] (P)  
 .300" [7.62mm](ACP)

**Section B:** (Signal Contacts) \_\_\_ Enter # of Signal Contacts (Multiples of 8 are standard, i.e. 16, 24, 32...)  
 \_\_\_ Enter the Positions with Post-Mate Contacts (Mate-Last-Break-First, Plugs only)  
 Note: Row A is standard (i.e. A1, A3, etc.)

**Section C:** (Power Contacts) \_\_\_ Enter # of Power Contacts (Loaded with standard length Power Contacts)  
 \_\_\_ Enter the positions to be loaded with Pre-Mate Contacts (Receptacles only)  
 (Mate-First-Break-Last, i.e. #1, #3, etc.)  
 Contact Centerline Spacings:  .200" [5.08mm] (HDP)  
 .250" [6.35mm] (P)  
 .300" [7.62mm] (ACP)

**8. Additional Requirements**

\_\_\_\_\_  
 \_\_\_\_\_

**9. Customer Information**

Name: \_\_\_\_\_ Company: \_\_\_\_\_ Location: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ e-mail: \_\_\_\_\_

(Submit to your local Tyco Electronics Sales Engineer)

AMP, ELCON, MULTI-BEAM XL, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## MINIPAK Custom Connector Worksheet

### MINIPAK Connector

- a. Enter your information in the table to the right.
- b. Specify the design requirements for your MINIPAK Connector configuration in steps 1 through 5 shown below.
- c. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

Tyco Electronics will recommend a MINIPAK Connector configuration based on the specified requirements and issue a Customer Drawing for your approval.

**This drawing will have a unique Part Number specific to your configuration, which you should reference whenever you make an inquiry or place an order.**

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

### 1. AC INPUT

- No AC input required     
  125 VAC spacing     
  250 VAC spacing

### 2. SIGNAL CONTACTS

- No signal contacts required   
  6 contacts   
  24 contacts   
  30 contacts   
  Other: \_\_\_\_\_
- Signal sequencing required (two pin lengths available; write requirements under NOTES below.)

### 3. DC INPUT/OUTPUT

Write the current, voltage and sequencing requirements for each of the DC lines required by your application. Tyco Electronics will use this information to configure the DC side of your MINIPAK Connector with the appropriate number of contacts and contact spacing.

| DC Requirements     |                 |     |     |     |     |     |     |     |     |
|---------------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|
|                     |                 | DC1 | DC2 | DC3 | DC4 | DC5 | DC6 | DC7 | DC8 |
| <b>Current (A)</b>  |                 |     |     |     |     |     |     |     |     |
| <b>Voltage (V)</b>  |                 |     |     |     |     |     |     |     |     |
| <b>Blade Length</b> | <b>Standard</b> |     |     |     |     |     |     |     |     |
|                     | <b>Premate</b>  |     |     |     |     |     |     |     |     |

### 4. BOARD MOUNTING STYLE

**Straight Socket** (choose one)

- Short solder tail (.062" thick boards)
- Long solder tail (.093/.125" thick boards)
- Compliant press-fit tails (.093" min. thick board recommended)

**Right Angle Blade** (choose one)

- Short solder tail (for .062" thick boards)
- Long solder tail (.093/.125" thick boards)

### 5. OTHER REQUIREMENTS

- Alignment guides required
- Connector length restriction, if any: \_\_\_\_\_ " (\_\_\_\_\_ mm)

For further clarity, you can attach a sketch to this form if necessary.

- Sketch attached: \_\_\_\_\_ pages

### NOTES:

---

---

---

---

---

---

---

---

---

---

AMP, ELCON, MINIPAK, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## FLATPAQ Connector Layout Form

### Instructions

1. Indicate the connector layout by filling in the FP number of each module required in the boxes, one per box. Use one form per mated pair.
2. Left to right order of the modules should match **mating face views** of the connector. **When laying out right angle assemblies**, make sure you look at the mating face with the termination tails facing downwards.
3. **For solder terminated assemblies**, indicate the tail length for each half of the connector using the checkboxes to the right of the layout grid.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

Upon receipt of this form, Tyco Electronics will generate a Customer Drawing for you to check and approve prior to connector production.

| ENTER CUSTOMER INFORMATION   |              |
|--|--------------|
| Company  | Location     |
| Contact Name   | Title        |
| Telephone  | Fax          |
| Email Address  |              |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: ) |              |
| Signature  | Today's Date |
| Annual Quantity Required   |              |

Write the "FP" numbers to indicate the layout of one half of the connector assembly, matching the left to right order with the mating face view of the connector (right angle assembly tails facing downwards).

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | <b>Solder Tail Options</b><br><input type="checkbox"/> .115" (2.9 mm); .062" thick boards<br><input type="checkbox"/> .177" (4.5 mm); .093/.125" boards |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |

Write the "FP" numbers to indicate the layout of the mate of the above assembly, matching the left to right order with the mating face view of the connector (right angle assembly tails facing downwards).

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | <b>Solder Tail Options</b><br><input type="checkbox"/> .115" (2.9 mm); .062" thick boards<br><input type="checkbox"/> .177" (4.5 mm); .093/.125" boards |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |

### Right Angle Mount

#### 250 V Power Modules

|   |   |   |  |                        |
|---|---|---|--|------------------------|
|   |   |   |  |                        |
| FP151<br>Standard Blade<br>FP105<br>Float, Standard<br>FP205<br>Hot Plug, Press-fit | FP152<br>Premate Blade<br>FP106<br>Float, Premate<br>FP206<br>Hot Plug, Press-fit | FP153<br>Postmate Blade<br>FP107<br>Float, Postmate<br>FP207<br>Hot Plug, Press-fit | FP104<br>Hot Plug Socket<br>FP204<br>Hot Plug, Press-fit | FP512<br>Spacer, 250 V |

#### Signal Modules

|   |  |   |  |
|---|--|---|--|
|   |  |   |  |
| FP302<br>24-Pin<br>FP402<br>24-Pin, Press-fit | FP303<br>24-Pin Socket<br>FP403<br>24-Pin, Press-fit | FP314<br>6-Pin<br>FP414<br>6-Pin, Press-fit | FP315<br>6-Pin Socket<br>FP415<br>6-Pin, Press-fit |

#### 600 V Power Modules

|   |   |   |  |                        |
|---|---|---|--|------------------------|
|   |   |   |  |                        |
| FP155<br>Standard Blade<br>FP121<br>Float, Standard<br>FP221<br>Hot Plug, Press-fit | FP156<br>Premate Blade<br>FP122<br>Float, Premate<br>FP222<br>Hot Plug, Press-fit | FP157<br>Postmate Blade<br>FP123<br>Float, Postmate<br>FP223<br>Hot Plug, Press-fit | FP120<br>Hot Plug Socket<br>FP220<br>Hot Plug, Press-fit | FP514<br>Spacer, 600 V |

#### Mounts

|                               |                                |
|-------------------------------|--------------------------------|
|                               |                                |
| FP500<br>Left Flange<br>Mount | FP501<br>Right Flange<br>Mount |

#### Guides

|   |  |
|---|--|
|   |  |
| Right Angle<br>Guide Sockets<br>FP506 Passive<br>FP516 Active | FP507<br>Right Angle<br>Passive<br>Guide Pin |

### Straight Mount

#### 250 V Power Modules

|  |   |   |   |                        |
|--|---|---|---|------------------------|
|  |   |   |   |                        |
| FP150<br>Socket, Solder<br>FP250<br>Socket, Press-fit<br>FP100<br>Hot Plug, Solder<br>FP200<br>Hot Plug, Press-fit | FP161<br>Standard Blade<br>FP101<br>Float, Standard<br>FP201<br>Hot Plug, Press-fit | FP162<br>Premate Blade<br>FP102<br>Float, Premate<br>FP202<br>Hot Plug, Press-fit | FP163<br>Postmate Blade<br>FP103<br>Float, Postmate<br>FP203<br>Hot Plug, Press-fit | FP511<br>Spacer, 250 V |

#### Signal Modules

|   |   |   |  |
|---|---|---|--|
|   |   |   |  |
| FP300<br>24-Pin<br>FP400<br>24-Pin, Press-fit | FP318<br>24-Pin Socket<br>FP418<br>24-Pin Skt, Press-fit<br>FP301<br>24-Pin Skt, 3A Rated<br>FP401<br>24-Pin Skt, 3A, Press-fit | FP312<br>6-Pin<br>FP412<br>6-Pin, Press-fit | FP313<br>6-Pin Socket,<br>3A rated<br>FP413<br>6-Pin Skt,<br>3A, Press-fit |

#### 600 V Power Modules

|  |   |   |   |                        |
|--|---|---|---|------------------------|
|  |   |   |   |                        |
| FP154<br>Socket, Solder<br>FP254<br>Socket, Press-fit<br>FP116<br>Hot Plug, Solder<br>FP216<br>Hot Plug, Press-fit | FP165<br>Standard Blade<br>FP117<br>Float, Standard<br>FP217<br>Hot Plug, Press-fit | FP166<br>Premate Blade<br>FP118<br>Float, Premate<br>FP218<br>Hot Plug, Press-fit | FP167<br>Postmate Blade<br>FP119<br>Float, Postmate<br>FP219<br>Hot Plug, Press-fit | FP513<br>Spacer, 600 V |

#### Mounts

|                               |                                |
|-------------------------------|--------------------------------|
|                               |                                |
| FP500<br>Left Flange<br>Mount | FP501<br>Right Flange<br>Mount |

#### Guides

|  |  |
|--|--|
|  |  |
| FP502<br>Straight<br>Passive<br>Guide Socket | Straight Guide Pins<br>FP503 Passive<br>FP515 Active, M3<br>FP517 Active, 4-40 |

**Note:** All modules are solder tail termination unless indicated as compliant Press-fit. Select solder tail length using check boxes to the right of the connector layout grid above. 0.093" or thicker boards are recommended for compliant Press-fit termination style. Consult Tyco Electronics for signal module sequencing. See Catalog 1773096 for benefits of Hot Plug and Float options.

AMP, ELCON, FLATPAQ, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## Mini Drawer Connector Pin Side Layout Form

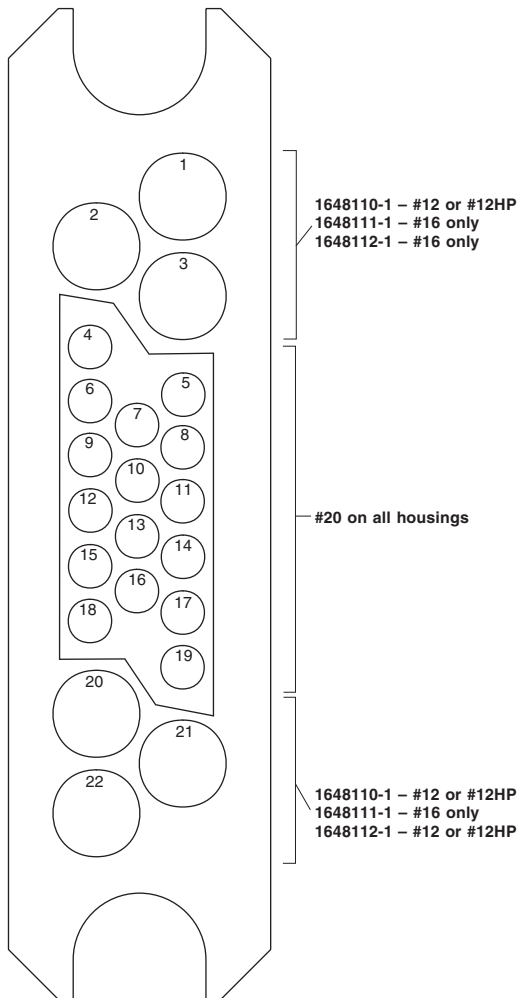
### Pin Assembly

1. Choose one housing from the **Pin Housing Selection Menu** table.
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired PCB tail contact in the appropriate contact positions on the drawing: e.g., if you need a size #20 premate PCB tail contact to be installed in contact position #10, write "E" in circle #10.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



| Pin Housing Selection Menu |  | Check One                |
|----------------------------|--|--------------------------|
| Part Number                | Description  |                          |
| 1648110-1                  | #12, #20, #12 Pin Housing, Float or Fixed Mounting | <input type="checkbox"/> |
| 1648111-1                  | #16, #20, #16 Pin Housing, Float or Fixed Mounting | <input type="checkbox"/> |
| 1648112-1                  | #16, #20, #12 Pin Housing, Float or Fixed Mounting | <input type="checkbox"/> |

| Pin Contact Selection Menu |      |             |                                |      |
|----------------------------|------|-------------|--------------------------------|------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #20                        | A =  | 1650155-1   | Crimp, standard                |      |
|                            | B =  | 1650161-1   | Crimp, premate                 |      |
|                            | C =  | 1650162-2   | Crimp, postmate                |      |
|                            | D =  | 1650283-1   | PCB tail, standard             |      |
|                            | E =  | 1650065-1   | PCB tail, premate              |      |
|                            | F =  | 1650226-1   | PCB tail, postmate             |      |
| #16                        | G =  | 1766194-1   | Crimp, standard                |      |
|                            | H =  | 1766198-1   | Crimp, premate                 |      |
|                            | J =  | 1766199-1   | Crimp, postmate                |      |
|                            | K =  | 1766222-1   | PCB tail, standard             |      |
|                            | L =  | 1766223-1   | PCB tail, premate              |      |
|                            | M =  | 1766818-1   | PCB tail, postmate             |      |
| #12                        | N =  | 1766193-1   | Crimp, standard                |      |
|                            | P =  | 1766195-1   | Crimp, premate                 |      |
|                            | Q =  | 1766196-1   | Crimp, postmate                |      |
|                            | R =  | 1766245-1   | PCB tail, standard             |      |
|                            | S =  | 1766250-1   | PCB tail, premate              |      |
|                            | T =  | 1766249-1   | PCB tail, postmate             |      |
| #12 Hot Plug               | U =  | 1650153-2   | Crimp, standard, Hot Plug      |      |
|                            | V =  | 1650156-2   | Crimp, premate, Hot Plug       |      |
|                            | W =  | 1650060-2   | PCB tail, standard, Hot Plug   |      |
|                            | X =  | 1650074-3   | PCB tail, premate, Hot Plug    |      |

Crimp contacts are removable. PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650106-1                  | Screw, No 6-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## Mini Drawer Connector Socket Side Layout Form

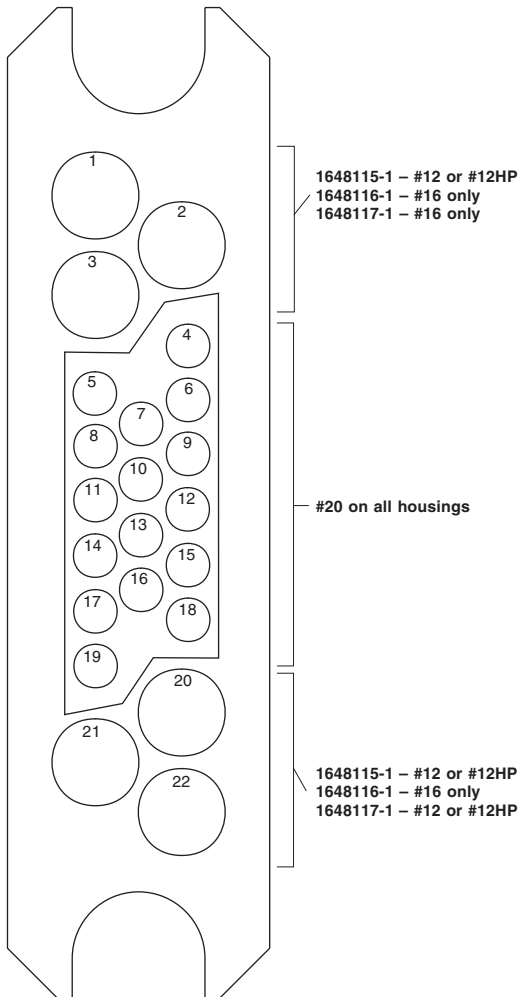
### Socket Assembly

1. Choose one housing from the **Socket Housing Selection Menu** table.
2. Write the total quantity of each socket contact you require for each **socket assembly** in the **Qty** column of the **Socket Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired PCB tail contact in the appropriate contact positions on the drawing: e.g., if you need a size #20 PCB tail contact to be installed in contact position #8, write "C" in circle #8.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
Socket Contact Insertion Side  
Socket Connector Rear Face Cavity Identification



| Socket Housing Selection Menu |   | Check One |
|-------------------------------|---|-----------|
| Part Number                   | Description   |           |
| 1648115-1                     | #12, #20, #12 Socket Housing, Float or Fixed Mounting |           |
| 1648116-1                     | #16, #20, #16 Socket Housing, Float or Fixed Mounting |           |
| 1648117-1                     | #16, #20, #12 Socket Housing, Float or Fixed Mounting |           |

| Socket Contact Selection Menu |      |             |                               |      |
|-------------------------------|------|-------------|-------------------------------|------|
| Size                          | Ref. | Part Number | Termination Style             | Qty. |
| #20                           | A =  | 1648325-1   | Crimp                         |      |
|                               | B =  | 6648301-1   | Compliant Press-fit           |      |
|                               | C =  | 1648382-1   | PCB Tail                      |      |
| #16                           | D =  | 6648319-1   | Crimp                         |      |
|                               | E =  | 6648306-1   | Compliant Press-fit           |      |
|                               | F =  | 6648383-1   | PCB Tail                      |      |
| #12                           | G =  | 6648318-1   | Crimp                         |      |
|                               | H =  | 6648304-1   | Compliant Press-fit           |      |
|                               | J =  | 6648374-1   | PCB Tail                      |      |
| #12 Hot Plug                  | K =  | 1648384-1   | Crimp, Hot Plug               |      |
|                               | L =  | 6648305-1   | Compliant Press-fit, Hot Plug |      |
|                               | M =  | 1648387-1   | PCB Tail, Hot Plug            |      |

Crimp contacts are removable. Press-fit and PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650106-1                  | Screw, No 6-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## Lower Drawer Connector Pin Side Layout Form

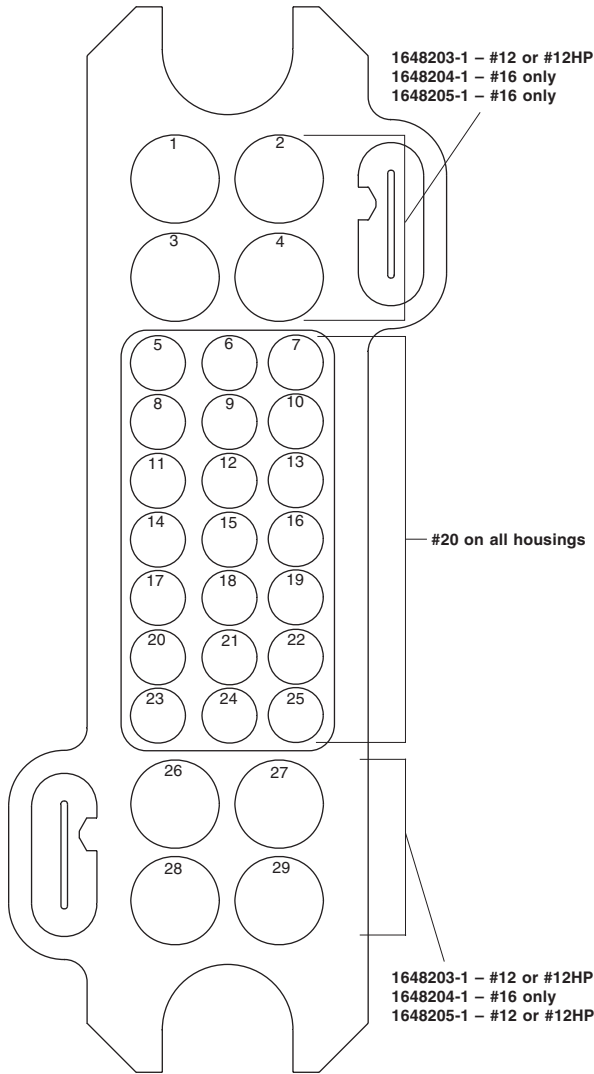
### Pin Assembly

1. Choose one housing from the **Pin Housing Selection Menu** table.
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired PCB tail contact in the appropriate contact positions on the drawing: e.g., if you need a size #20 premate PCB tail contact to be installed in contact position #10, write "E" in circle #10.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



**Top Assembly Part Number Assigned by Tyco Electronics**

| Pin Housing Selection Menu |  | Check One |
|----------------------------|--|-----------|
| Part Number                | Description  |           |
| 1648203-1                  | #12, #20, #12 Pin Housing, Float or Fixed Mounting |           |
| 1648204-1                  | #16, #20, #16 Pin Housing, Float or Fixed Mounting |           |
| 1648205-1                  | #16, #20, #12 Pin Housing, Float or Fixed Mounting |           |

| Pin Contact Selection Menu |      |             |                                | Qty. |
|----------------------------|------|-------------|--------------------------------|------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length |      |
| #20                        | A =  | 1650155-1   | Crimp, standard                |      |
|                            | B =  | 1650161-1   | Crimp, premate                 |      |
|                            | C =  | 1650162-2   | Crimp, postmate                |      |
|                            | D =  | 1650283-1   | PCB tail, standard             |      |
|                            | E =  | 1650065-1   | PCB tail, premate              |      |
|                            | F =  | 1650226-1   | PCB tail, postmate             |      |
| #16                        | G =  | 1766194-1   | Crimp, standard                |      |
|                            | H =  | 1766198-1   | Crimp, premate                 |      |
|                            | J =  | 1766199-1   | Crimp, postmate                |      |
|                            | K =  | 1766222-1   | PCB tail, standard             |      |
|                            | L =  | 1766223-1   | PCB tail, premate              |      |
|                            | M =  | 1766818-1   | PCB tail, postmate             |      |
| #12                        | N =  | 1766193-1   | Crimp, standard                |      |
|                            | P =  | 1766195-1   | Crimp, premate                 |      |
|                            | Q =  | 1766196-1   | Crimp, postmate                |      |
|                            | R =  | 1766245-1   | PCB tail, standard             |      |
|                            | S =  | 1766250-1   | PCB tail, premate              |      |
|                            | T =  | 1766249-1   | PCB tail, postmate             |      |
| #12 Hot Plug               | U =  | 1650153-2   | Crimp, standard, Hot Plug      |      |
|                            | V =  | 1650156-2   | Crimp, premate, Hot Plug       |      |
|                            | W =  | 1650060-2   | PCB tail, standard, Hot Plug   |      |
|                            | X =  | 1650074-3   | PCB tail, premate, Hot Plug    |      |

Crimp contacts are removable. PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       | Qty. |
|----------------------------|-----------------------|------|
| Part Number                | Description           |      |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650106-1                  | Screw, No 6-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.



**Lower Drawer Connector Socket Side Layout Form**

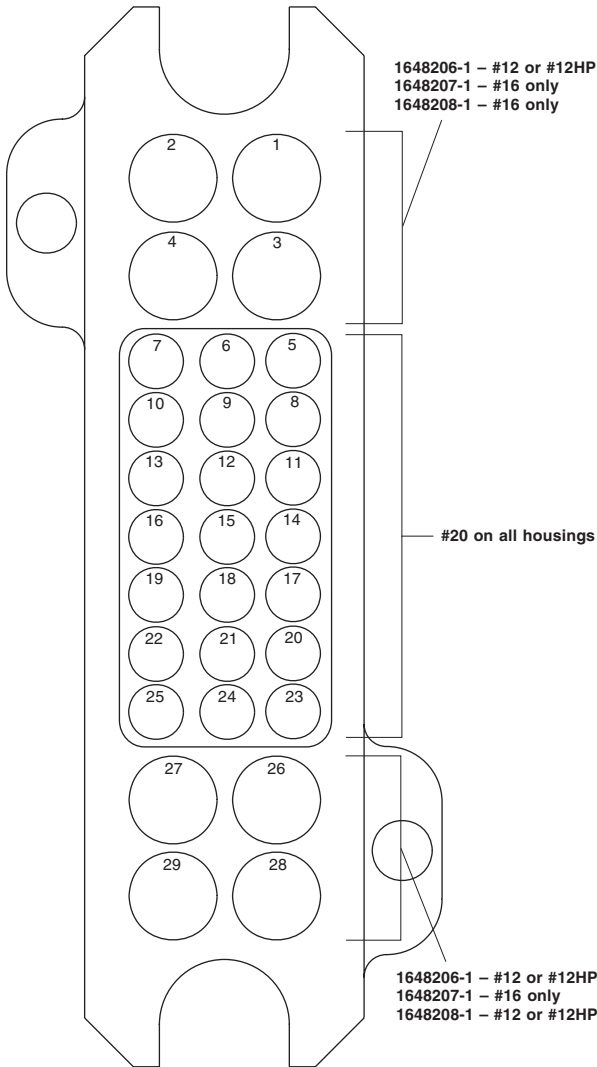
**Socket Assembly**

1. Choose one housing from the **Socket Housing Selection Menu** table.
2. Write the total quantity of each socket contact you require for each **socket assembly** in the **Qty** column of the **Socket Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired PCB tail contact in the appropriate contact positions on the drawing: e.g., if you need a size #20 PCB tail contact to be installed in contact position #8, write "C" in circle #8.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
Socket Contact Insertion Side  
Socket Connector Rear Face Cavity Identification



| Socket Housing Selection Menu |   | Check One |
|-------------------------------|---|-----------|
| Part Number                   | Description   |           |
| 1648206-1                     | #12, #20, #12 Socket Housing, Float or Fixed Mounting |           |
| 1648207-1                     | #16, #20, #16 Socket Housing, Float or Fixed Mounting |           |
| 1648208-1                     | #16, #20, #12 Socket Housing, Float or Fixed Mounting |           |

| Socket Contact Selection Menu |      |             |                               |      |
|-------------------------------|------|-------------|-------------------------------|------|
| Size                          | Ref. | Part Number | Termination Style             | Qty. |
| #20                           | A =  | 1648325-1   | Crimp                         |      |
|                               | B =  | 6648301-1   | Compliant Press-fit           |      |
|                               | C =  | 1648382-1   | PCB Tail                      |      |
| #16                           | D =  | 6648319-1   | Crimp                         |      |
|                               | E =  | 6648306-1   | Compliant Press-fit           |      |
|                               | F =  | 6648383-1   | PCB Tail                      |      |
| #12                           | G =  | 6648318-1   | Crimp                         |      |
|                               | H =  | 6648304-1   | Compliant Press-fit           |      |
|                               | J =  | 6648374-1   | PCB Tail                      |      |
| #12 Hot Plug                  | K =  | 1648384-1   | Crimp, Hot Plug               |      |
|                               | L =  | 6648305-1   | Compliant Press-fit, Hot Plug |      |
|                               | M =  | 1648387-1   | PCB Tail, Hot Plug            |      |

Crimp contacts are removable. Press-fit and PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650106-1                  | Screw, No 6-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## 75A Middle Drawer Connector Pin Side Layout Form

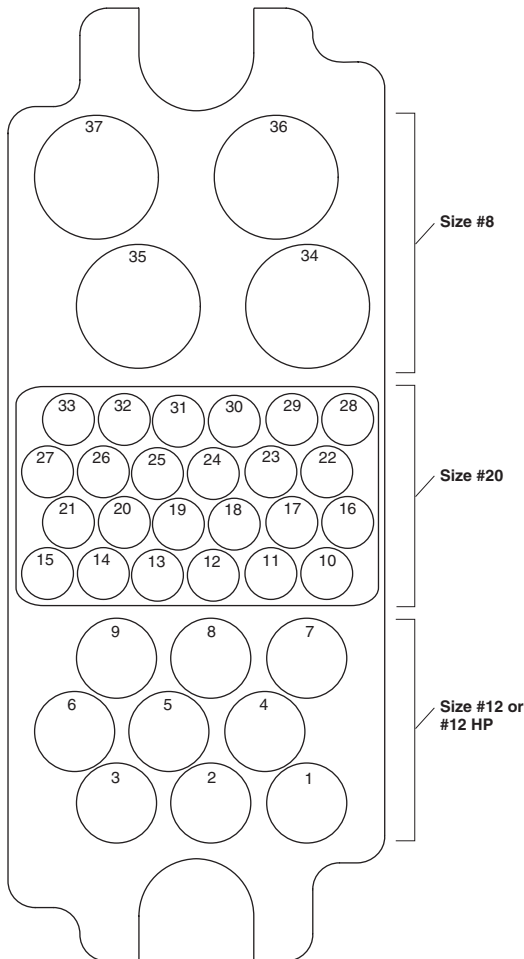
### Pin Assembly

1. Choose one housing from the **Pin Housing Selection Menu** table.
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired PCB tail contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 premate PCB tail contact to be installed in contact position #8, write "Q" in circle #8.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



| Pin Housing Selection Menu |                                       | Check One |
|----------------------------|---------------------------------------|-----------|
| Part Number                | Description                           |           |
| 1648162-1                  | Float Mount for Crimp Contacts        |           |
| 1648163-1                  | Flush PCB Mount for PCB Tail Contacts |           |

| Pin Contact Selection Menu |      |             |                                |      |
|----------------------------|------|-------------|--------------------------------|------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #8                         | A =  | 1766192-1   | Crimp, standard                |      |
|                            | B =  | 1766197-1   | Crimp, premate                 |      |
|                            | C =  | 1766262-1   | PCB tail, standard             |      |
|                            | D =  | 1766263-1   | PCB tail, premate              |      |
| #20                        | E =  | 1650155-1   | Crimp, standard                |      |
|                            | F =  | 1650161-1   | Crimp, premate                 |      |
|                            | G =  | 1650162-2   | Crimp, postmate                |      |
|                            | H =  | 1650283-1   | PCB tail, standard             |      |
|                            | J =  | 1650065-1   | PCB tail, premate              |      |
| #12                        | K =  | 1650226-1   | PCB tail, postmate             |      |
|                            | L =  | 1766193-1   | Crimp, standard                |      |
|                            | M =  | 1766195-1   | Crimp, premate                 |      |
|                            | N =  | 1766196-1   | Crimp, postmate                |      |
|                            | P =  | 1766245-1   | PCB tail, standard             |      |
| #12 Hot Plug               | Q =  | 1766250-1   | PCB tail, premate              |      |
|                            | R =  | 1766249-1   | PCB tail, postmate             |      |
|                            | S =  | 1650153-2   | Crimp, standard, Hot Plug      |      |
|                            | T =  | 1650156-2   | Crimp, premate, Hot Plug       |      |
|                            | U =  | 1650060-2   | PCB tail, standard, Hot Plug   |      |
|                            | V =  | 1650074-3   | PCB tail, premate, Hot Plug    |      |

Crimp contacts are removable. PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650106-1                  | Screw, No 6-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## 75A Middle Drawer Connector Socket Side Layout Form

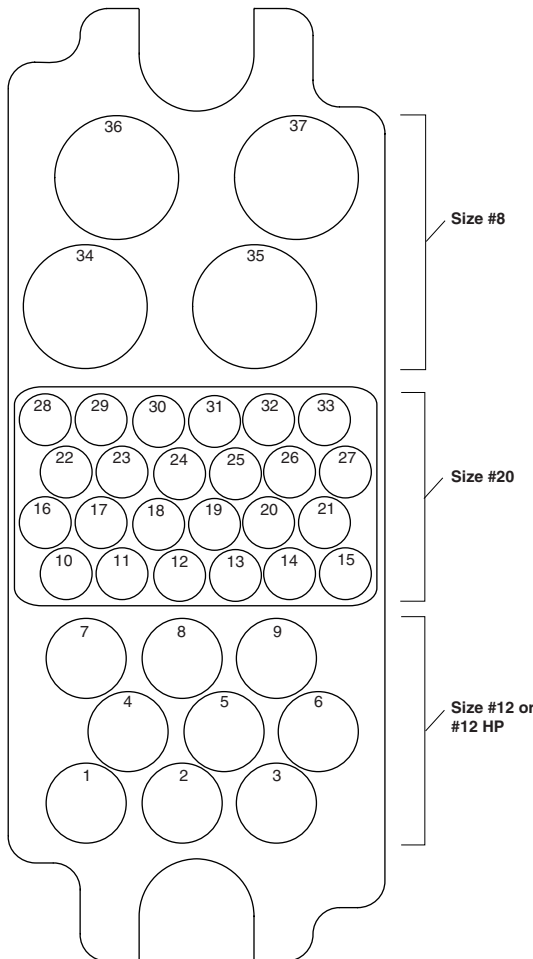
### Socket Assembly

1. Choose one housing from the **Socket Housing Selection Menu** table.
2. Write the total quantity of each socket contact you require for each **socket assembly** in the **Qty** column of the **Socket Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 PCB tail contact to be installed in contact position #8, write "J" in circle #8.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
Socket Contact Insertion Side  
Socket Connector Rear Face Cavity Identification



| Socket Housing Selection Menu |   | Check One                |
|-------------------------------|---|--------------------------|
| Part Number                   | Description                                   |                          |
| 6648167-1                     | Float Mount for Crimp Contacts                | <input type="checkbox"/> |
| 1648168-1                     | PCB Mount for PCB Tail and Press-fit Contacts | <input type="checkbox"/> |

| Socket Contact Selection Menu |      |             |                               |                          |
|-------------------------------|------|-------------|-------------------------------|--------------------------|
| Size                          | Ref. | Part Number | Termination Style             | Qty.                     |
| <b>#8</b>                     | A =  | 6648317-1   | Crimp                         | <input type="checkbox"/> |
|                               | B =  | 6648351-1   | Knurled Press-fit             | <input type="checkbox"/> |
|                               | C =  | 6648400-1   | PCB Tail                      | <input type="checkbox"/> |
| <b>#20</b>                    | D =  | 1648325-1   | Crimp                         | <input type="checkbox"/> |
|                               | E =  | 6648294-1   | Compliant Press-fit (Flush)   | <input type="checkbox"/> |
|                               | F =  | 1648382-1   | PCB Tail                      | <input type="checkbox"/> |
| <b>#12</b>                    | G =  | 6648318-1   | Crimp                         | <input type="checkbox"/> |
|                               | H =  | 6648304-1   | Compliant Press-fit           | <input type="checkbox"/> |
|                               | J =  | 6648374-1   | PCB Tail                      | <input type="checkbox"/> |
| <b>#12 Hot Plug</b>           | K =  | 1648384-1   | Crimp, Hot Plug               | <input type="checkbox"/> |
|                               | L =  | 6648305-1   | Compliant Press-fit, Hot Plug | <input type="checkbox"/> |
|                               | M =  | 1648387-1   | PCB Tail, Hot Plug            | <input type="checkbox"/> |

Crimp contacts are removable. Press-fit and PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |                          |
|----------------------------|-----------------------|--------------------------|
| Part Number                | Description           | Qty.                     |
| 1650402-1                  | Screw, No 8-32 UNC 2A | <input type="checkbox"/> |
| 1650106-1                  | Screw, No 6-32 UNC 2A | <input type="checkbox"/> |
| 1650589-1                  | Screw, M4 x 0.7       | <input type="checkbox"/> |

**Top Assembly Part Number Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## 125A Middle Drawer Connector Pin Side Layout Form

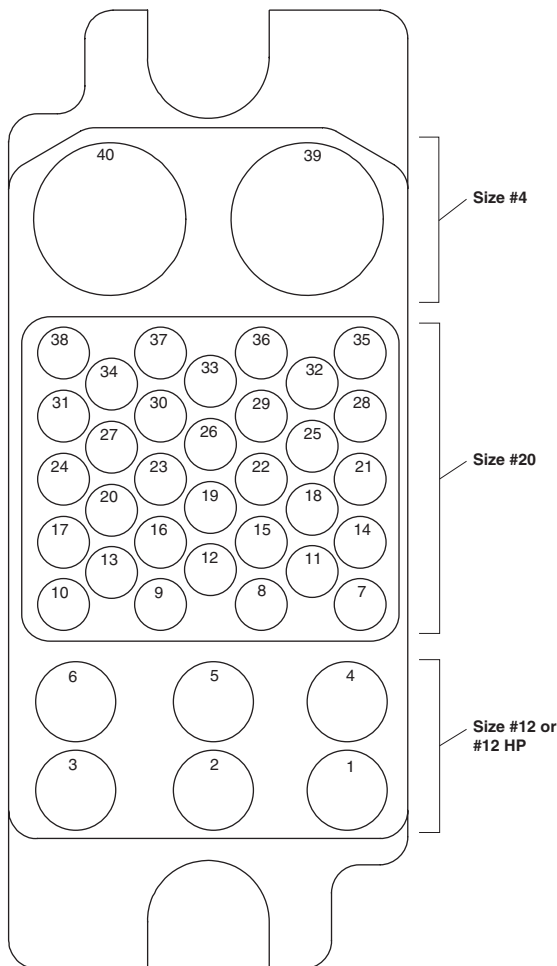
### Pin Assembly

1. Choose one housing from the **Pin Housing Selection Menu** table.
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 premate PCB tail contact to be installed in contact position #4, write "Q" in circle #4.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



| Pin Housing Selection Menu |                         | Check One |
|----------------------------|-------------------------|-----------|
| Part Number                | Description             |           |
| 1648151-1                  | Float Mount Pin Housing |           |
| 1648152-1                  | PCB Mount Pin Housing   |           |

| Pin Contact Selection Menu |      |             |                                |      |
|----------------------------|------|-------------|--------------------------------|------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #4                         | A =  | 1766232-1   | Crimp, standard                |      |
|                            | B =  | 1766812-1   | 1/4-20 External Thread         |      |
|                            | C =  | 1766283-1   | M5 Internal Thread             |      |
| #20                        | E =  | 1650155-1   | Crimp, standard                |      |
|                            | F =  | 1650161-1   | Crimp, premate                 |      |
|                            | G =  | 1650162-2   | Crimp, postmate                |      |
|                            | H =  | 1650283-1   | PCB tail, standard             |      |
|                            | J =  | 1650065-1   | PCB tail, premate              |      |
|                            | K =  | 1650226-1   | PCB tail, postmate             |      |
| #12                        | L =  | 1766193-1   | Crimp, standard                |      |
|                            | M =  | 1766195-1   | Crimp, premate                 |      |
|                            | N =  | 1766196-1   | Crimp, postmate                |      |
|                            | P =  | 1766245-1   | PCB tail, standard             |      |
|                            | Q =  | 1766250-1   | PCB tail, premate              |      |
|                            | R =  | 1766249-1   | PCB tail, postmate             |      |
| #12 Hot Plug               | S =  | 1650153-2   | Crimp, standard, Hot Plug      |      |
|                            | T =  | 1650156-2   | Crimp, premate, Hot Plug       |      |
|                            | U =  | 1650060-2   | PCB tail, standard, Hot Plug   |      |
|                            | V =  | 1650074-3   | PCB tail, premate, Hot Plug    |      |

Crimp and Threaded contacts are removable. PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650106-1                  | Screw, No 6-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

**125A Middle Drawer Connector Socket Side Layout Form**

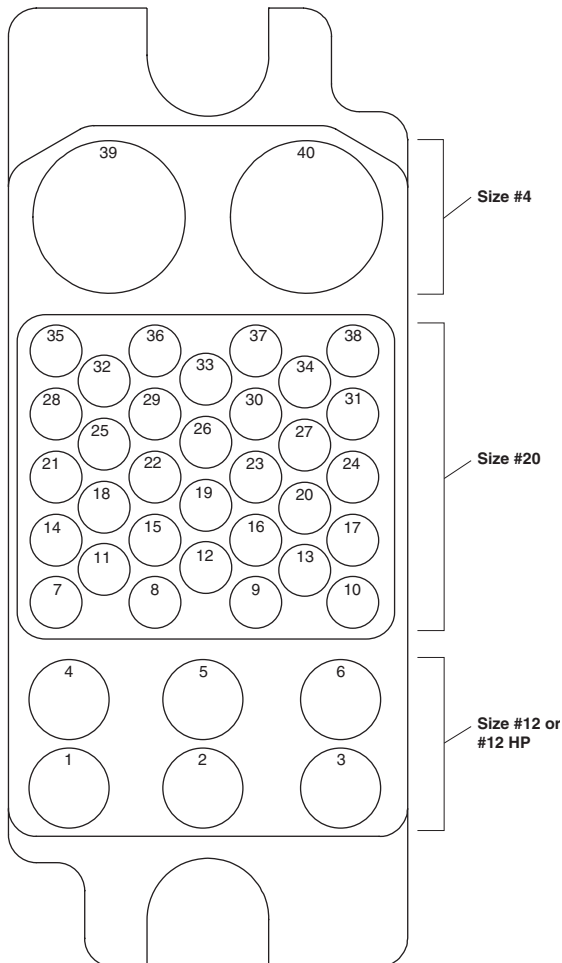
**Socket Assembly**

1. Choose one housing from the **Socket Housing Selection Menu** table.
2. Write the total quantity of each socket contact you require for each **socket assembly** in the **Qty** column of the **Socket Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 PCB tail contact to be installed in contact position #4, write "J" in circle #4.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
Socket Contact Insertion Side  
Socket Connector Rear Face Cavity Identification



| Socket Housing Selection Menu |   | Check One |
|-------------------------------|---|-----------|
| Part Number                   | Description                                   |           |
| 1648156-1                     | Float Mount for Crimp Contacts                |           |
| 1648157-1                     | PCB Mount for PCB Tail and Press-fit Contacts |           |

| Socket Contact Selection Menu |      |             |                               |      |
|-------------------------------|------|-------------|-------------------------------|------|
| Size                          | Ref. | Part Number | Termination Style             | Qty. |
| #4                            | A =  | 6648434-1   | Crimp                         |      |
|                               | B =  | 6648435-1   | 1/4-20 External Thread        |      |
|                               | C =  | 6648335-1   | M5 Internal Thread            |      |
| #20                           | D =  | 1648325-1   | Crimp                         |      |
|                               | E =  | 6648301-1   | Compliant Press-fit           |      |
|                               | F =  | 1648382-1   | PCB Tail                      |      |
| #12                           | G =  | 6648318-1   | Crimp                         |      |
|                               | H =  | 6648304-1   | Compliant Press-fit           |      |
|                               | J =  | 6648374-1   | PCB Tail                      |      |
| #12 Hot Plug                  | K =  | 1648384-1   | Crimp, Hot Plug               |      |
|                               | L =  | 6648305-1   | Compliant Press-fit, Hot Plug |      |
|                               | M =  | 1648387-1   | PCB Tail, Hot Plug            |      |

Crimp and Threaded contacts are removable. Press-fit and PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650106-1                  | Screw, No 6-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## 200A Middle Drawer Connector Pin Side Layout Form

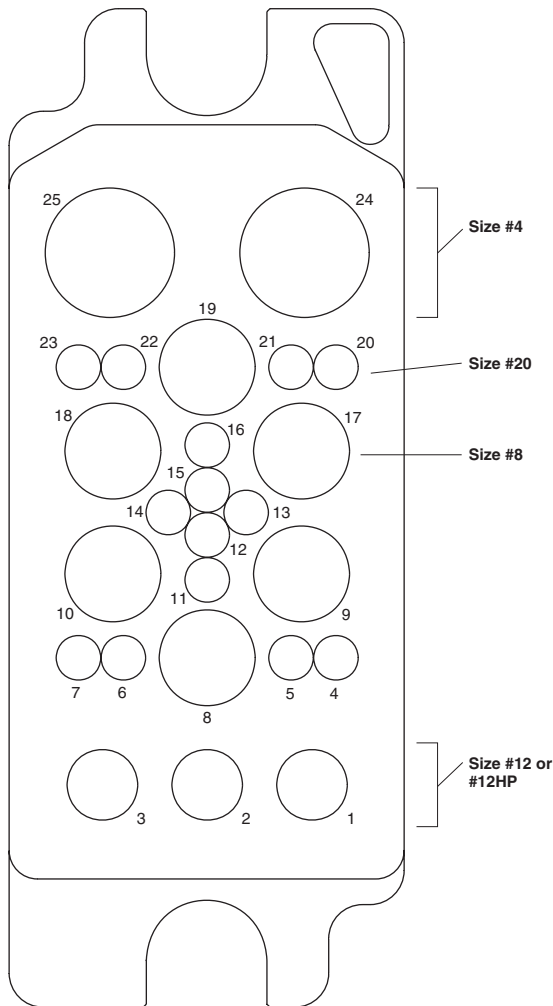
### Pin Assembly

1. Enter company and contact information (at right).
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a size #4 external thread contact to be installed in contact position #25, write "B" in circle #25.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



| Pin Housing Part Number |
|-------------------------|
| 1648134-1               |

| Pin Contact Selection Menu |      |             |                                |      |
|----------------------------|------|-------------|--------------------------------|------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #4                         | A =  | 1766232-1   | Crimp, standard                |      |
|                            | B =  | 1766812-1   | 1/4-20 External Thread         |      |
| #8                         | C =  | 1766192-1   | Crimp, standard                |      |
|                            | D =  | 1766197-1   | Crimp, premate                 |      |
| #20                        | E =  | 1650155-1   | Crimp, standard                |      |
|                            | F =  | 1650161-1   | Crimp, premate                 |      |
|                            | G =  | 1650162-2   | Crimp, postmate                |      |
|                            | H =  | 1650283-1   | PCB tail, standard             |      |
|                            | J =  | 1650065-1   | PCB tail, premate              |      |
|                            | K =  | 1650226-1   | PCB tail, postmate             |      |
| #12                        | L =  | 1766193-1   | Crimp, standard                |      |
|                            | M =  | 1766195-1   | Crimp, premate                 |      |
|                            | N =  | 1766196-1   | Crimp, postmate                |      |
|                            | P =  | 1766245-1   | PCB tail, standard             |      |
|                            | Q =  | 1766250-1   | PCB tail, premate              |      |
|                            | R =  | 1766249-1   | PCB tail, postmate             |      |
| #12 Hot Plug               | S =  | 1650153-2   | Crimp, standard, Hot Plug      |      |
|                            | T =  | 1650156-2   | Crimp, premate, Hot Plug       |      |
|                            | U =  | 1650060-2   | PCB tail, standard, Hot Plug   |      |
|                            | V =  | 1650074-3   | PCB tail, premate, Hot Plug    |      |

Crimp and Threaded contacts are removable. PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## 200A Middle Drawer Connector Socket Side Layout Form

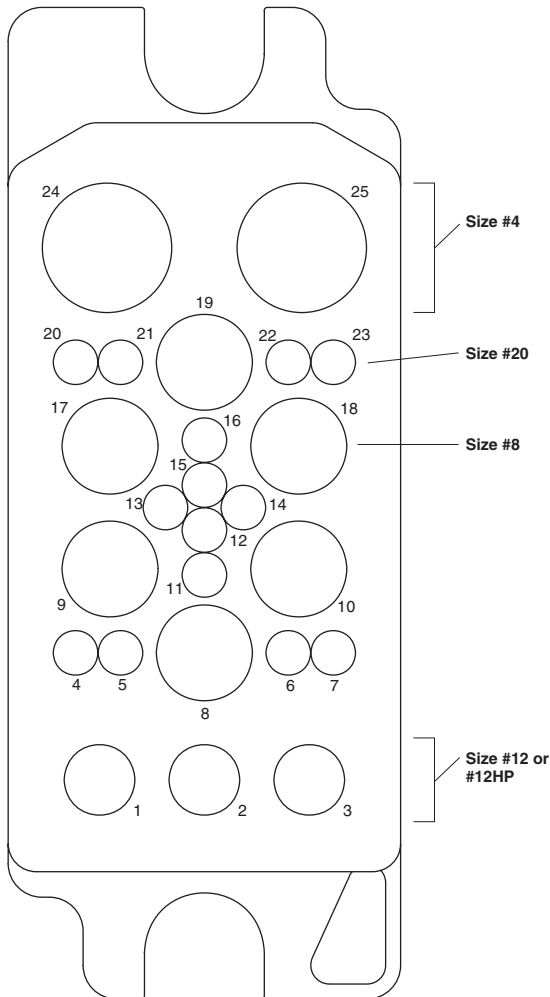
### Socket Assembly

1. Enter company and contact information (at right).
2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a size #4 external thread contact to be installed in contact position #25, write "B" in circle #25.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
Socket Contact Insertion Side  
Socket Connector Rear Face Cavity Identification



| Socket Housing Part Number |
|----------------------------|
| 1648135-1                  |

| Socket Contact Selection Menu |      |             |                                |      |
|-------------------------------|------|-------------|--------------------------------|------|
| Size                          | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| <b>#4</b>                     | A =  | 6648434-1   | Crimp                          |      |
|                               | B =  | 6648435-1   | 1/4-20 External Thread         |      |
| <b>#8</b>                     | C =  | 6648317-1   | Crimp                          |      |
|                               | D =  | 6648400-1   | PCB Tail                       |      |
| <b>#20</b>                    | E =  | 1648325-1   | Crimp                          |      |
|                               | F =  | 1648382-1   | PCB Tail                       |      |
| <b>#12</b>                    | G =  | 6648318-1   | Crimp                          |      |
|                               | H =  | 6648374-1   | PCB Tail                       |      |
| <b>#12 Hot Plug</b>           | J =  | 1648384-1   | Crimp, Hot Plug                |      |
|                               | K =  | 1648387-1   | PCB Tail, Hot Plug             |      |

Crimp and Threaded contacts are removable. Press-fit and PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number  
Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## Square Drawer Connector Pin Side Layout Form

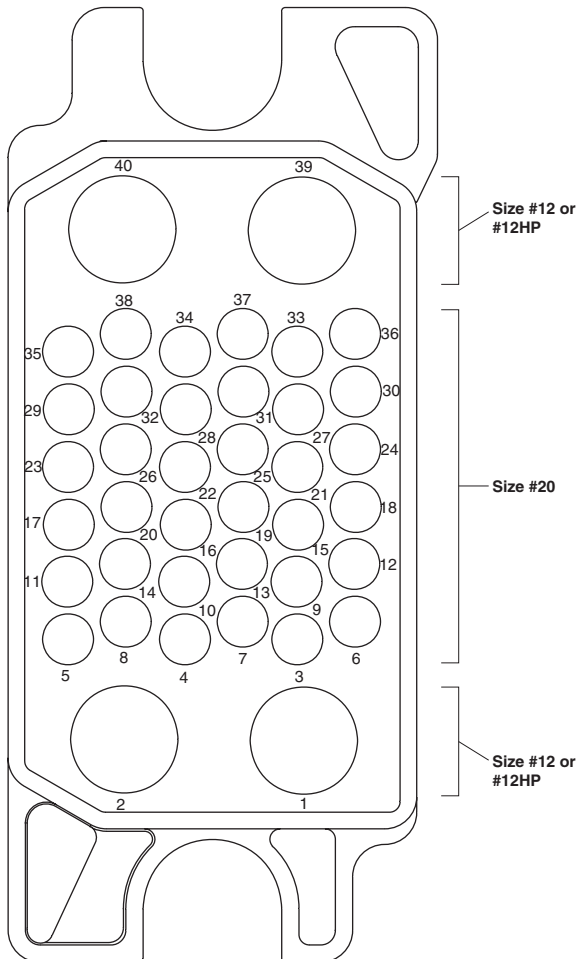
### Pin Assembly

1. Enter company and contact information (at right).
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired PCB tail contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 standard PCB tail contact to be installed in contact position #1, write "K" in circle #1.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



| Pin Housing Part Number |
|-------------------------|
| 1648132-1               |

| Pin Contact Selection Menu |      |             |                                |      |
|----------------------------|------|-------------|--------------------------------|------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #20                        | A =  | 1650155-1   | Crimp, standard                |      |
|                            | B =  | 1650161-1   | Crimp, premate                 |      |
|                            | C =  | 1650162-2   | Crimp, postmate                |      |
|                            | D =  | 1650283-1   | PCB tail, standard             |      |
|                            | E =  | 1650065-1   | PCB tail, premate              |      |
|                            | F =  | 1650226-1   | PCB tail, postmate             |      |
| #12                        | G =  | 1766193-1   | Crimp, standard                |      |
|                            | H =  | 1766195-1   | Crimp, premate                 |      |
|                            | J =  | 1766196-1   | Crimp, postmate                |      |
|                            | K =  | 1766245-1   | PCB tail, standard             |      |
|                            | L =  | 1766250-1   | PCB tail, premate              |      |
|                            | M =  | 1766249-1   | PCB tail, postmate             |      |
| #12 Hot Plug               | N =  | 1650153-2   | Crimp, standard, Hot Plug      |      |
|                            | P =  | 1650156-2   | Crimp, premate, Hot Plug       |      |
|                            | Q =  | 1650060-2   | PCB tail, standard, Hot Plug   |      |
|                            | R =  | 1650074-3   | PCB tail, premate, Hot Plug    |      |

Crimp contacts are removable. PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.



## Square Drawer Connector Socket Side Layout Form

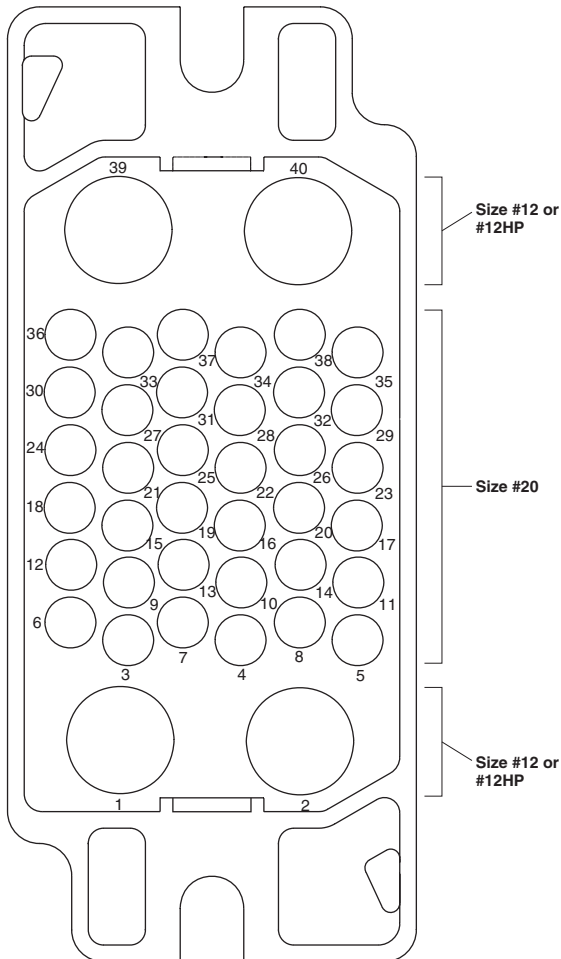
### Socket Assembly

1. Enter company and contact information (at right).
2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 PCB tail contact to be installed in contact position #1, write "F" in circle #1.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
Socket Contact Insertion Side  
Socket Connector Rear Face Cavity Identification



| Socket Housing Part Number   |
|------------------------------|
| 1648133-1 = Fixed Mount only |

| Socket Contact Selection Menu |      |             |                                |      |
|-------------------------------|------|-------------|--------------------------------|------|
| Size                          | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #20                           | A =  | 1648325-1   | Crimp                          |      |
|                               | B =  | 6648301-1   | Compliant Press-fit            |      |
|                               | C =  | 1648382-1   | PCB Tail                       |      |
| #12                           | D =  | 6648318-1   | Crimp                          |      |
|                               | E =  | 6648304-1   | Compliant Press-fit            |      |
| #12 Hot Plug                  | F =  | 6648374-1   | PCB Tail                       |      |
|                               | G =  | 1648384-1   | Crimp, Hot Plug                |      |
|                               | H =  | 6648305-1   | Compliant Press-fit, Hot Plug  |      |
|                               | J =  | 1648387-1   | PCB Tail, Hot Plug             |      |

Crimp contacts are removable. Press-fit and PCB tail contacts are non-removable.

**Top Assembly Part Number Assigned by Tyco Electronics**

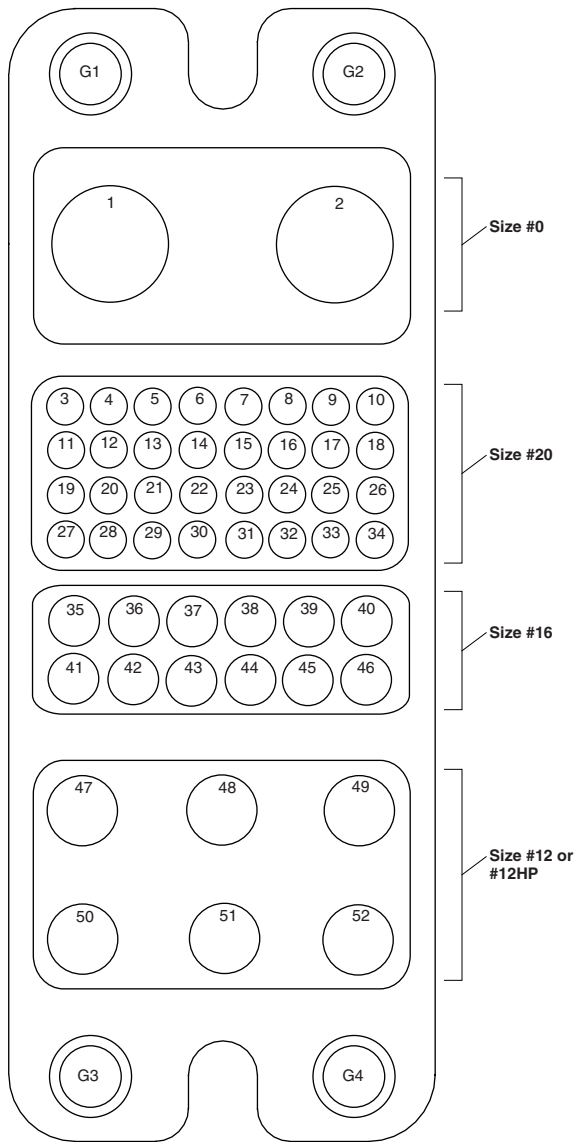
AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## Top Drawer Connector Pin Side Layout Form

### Pin Assembly

1. Choose one housing from the **Pin Housing Selection Menu** table. Place an X in the appropriate guide pin circles, if guide pins are required.
2. Write the total quantity of each pin contact you require for each pin assembly in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a size #20 premate PCB tail standard contact to be installed in contact position #10, write "Q" in circle #10.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



**Top Assembly Part Number Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

| Pin Housing Selection Menu |                                       | Check One |
|----------------------------|---------------------------------------|-----------|
| <b>Part Number</b>         | <b>Description</b>                    |           |
| 1648183-1                  | Housing without guides                |           |
|                            | Housing with guides (#6-32 thread)    |           |
|                            | Housing with guides (M3 x 0.5 thread) |           |

| Pin Contact Selection Menu |      |             |                                     | Qty.            |
|----------------------------|------|-------------|-------------------------------------|-----------------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length      |                 |
| #0                         | A =  | 1766811-1   | Crimp                               |                 |
|                            | B =  | 1766819-1   | Probe Proof, crimp                  |                 |
|                            | C =  | 1766230-1   | 1/4-20 Internal Thread              |                 |
|                            | D =  | 1766274-1   | M6 x 1 Internal Thread              |                 |
|                            | E =  | 1766269-1   | Probe Proof, 1/4-20 Internal Thread |                 |
|                            | F =  | 1766275-1   | Probe Proof, M6 x 1 Internal Thread |                 |
|                            | G =  | 1766268-1   | 1/4-20 External Thread              |                 |
|                            | H =  | 1766231-1   | M6 x 1 External Thread              |                 |
|                            | J =  | 1766270-1   | Probe Proof, 1/4-20 External Thread |                 |
|                            | K =  | 1766276-1   | Probe Proof, M6 x 1 External Thread |                 |
|                            | #20  | L =         | 1650155-1                           | Crimp, standard |
| M =                        |      | 1650161-1   | Crimp, premate                      |                 |
| N =                        |      | 1650162-2   | Crimp, postmate                     |                 |
| P =                        |      | 1650283-1   | PCB tail, standard                  |                 |
| Q =                        |      | 1650065-1   | PCB tail, premate                   |                 |
| R =                        |      | 1650226-1   | PCB tail, postmate                  |                 |
| #16                        | S =  | 1766194-1   | Crimp, standard                     |                 |
|                            | T =  | 1766198-1   | Crimp, premate                      |                 |
|                            | U =  | 1766199-1   | Crimp, postmate                     |                 |
|                            | V =  | 1766222-1   | PCB tail, standard                  |                 |
|                            | W =  | 1766223-1   | PCB tail, premate                   |                 |
|                            | X =  | 1766818-1   | PCB tail, postmate                  |                 |
| #12                        | Y =  | 1766193-1   | Crimp, standard                     |                 |
|                            | Z =  | 1766195-1   | Crimp, premate                      |                 |
|                            | AA = | 1766196-1   | Crimp, postmate                     |                 |
|                            | AB = | 1766245-1   | PCB tail, standard                  |                 |
|                            | AC = | 1766250-1   | PCB tail, premate                   |                 |
|                            | AD = | 1766249-1   | PCB tail, postmate                  |                 |
| #12 Hot Plug               | AE = | 1650153-2   | Crimp, standard, Hot Plug           |                 |
|                            | AF = | 1650156-2   | Crimp, premate, Hot Plug            |                 |
|                            | AG = | 1650060-2   | PCB tail, standard, Hot Plug        |                 |
|                            | AH = | 1650074-3   | PCB tail, premate, Hot Plug         |                 |

Crimp and Threaded contacts are removable. PCB tail contacts are non-removable.

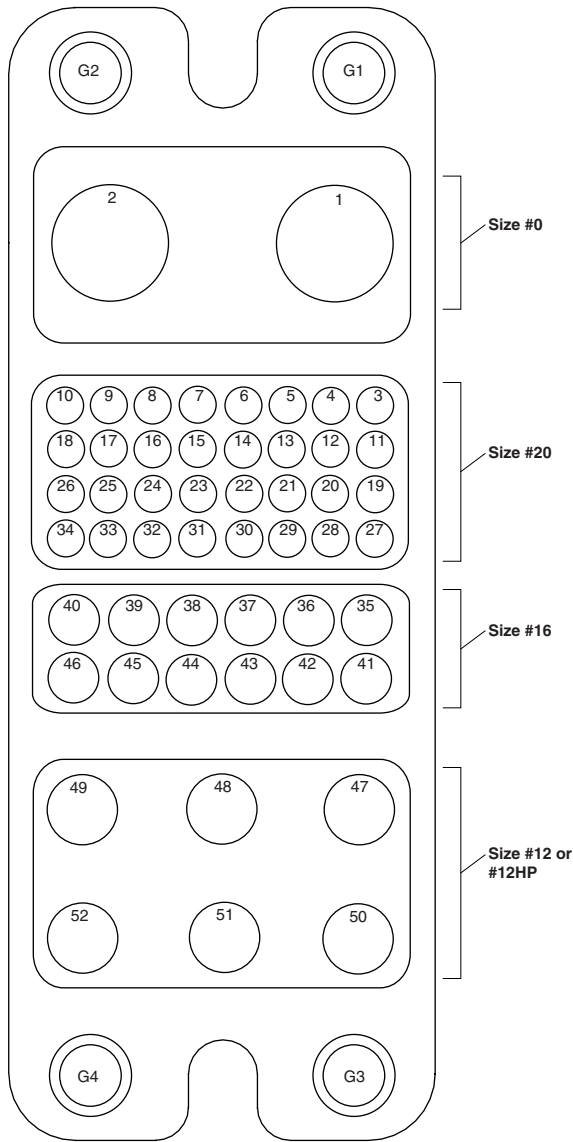
| Float Mount Shoulder Screw |                        |      |
|----------------------------|------------------------|------|
| Part Number                | Description            | Qty. |
| 1650399-1                  | Screw, No 10-32 UNC 2A |      |
| 1650401-1                  | Screw, M5 x 0.8        |      |

## Top Drawer Connector Socket Side Layout Form

### Socket Assembly

- Choose one housing from the **Socket Housing Selection Menu** table. Place an X in the appropriate guide pin circles, if guide pins are required.
- Write the total quantity of each socket contact you require for each socket assembly in the **Qty** column of the **Socket Contact Selection Menu** table.
- Crimp contacts are shipped uninstalled. Threaded, Press-fit and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 PCB tail contact to be installed in contact position #51, write "U" in circle #51.
- Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
 Socket Contact Insertion Side  
 Socket Connector Rear Face Cavity Identification



**Top Assembly Part Number Assigned by Tyco Electronics**

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

| Pin Housing Selection Menu |                                       | Check One |
|----------------------------|---------------------------------------|-----------|
| Part Number                | Description                           |           |
| 1648186-1                  | Housing without guides                |           |
|                            | Housing with guides (#6-32 thread)    |           |
|                            | Housing with guides (M3 x 0.5 thread) |           |

| Socket Contact Selection Menu |      |             |                                     |      |
|-------------------------------|------|-------------|-------------------------------------|------|
| Size                          | Ref. | Part Number | Termination Style & Pin Length      | Qty. |
| #0                            | A =  | 6648405-1   | Crimp                               |      |
|                               | B =  | 6648418-1   | Probe Proof, crimp                  |      |
|                               | C =  | 6648416-1   | 1/4-20 Internal Thread              |      |
|                               | D =  | 6648428-1   | M6 x 1 Internal Thread              |      |
|                               | E =  | 6648419-1   | Probe Proof, 1/4-20 Internal Thread |      |
|                               | F =  | 6648429-1   | Probe Proof, M6 x 1 Internal Thread |      |
|                               | G =  | 6648417-1   | 1/4-20 External Thread              |      |
|                               | H =  | 6648430-1   | M6 x 1 External Thread              |      |
|                               | J =  | 6648420-1   | Probe Proof, 1/4-20 External Thread |      |
|                               | K =  | 6648431-1   | Probe Proof, M6 x 1 External Thread |      |
| #20                           | L =  | 1648325-1   | Crimp                               |      |
|                               | M =  | 6648301-1   | Compliant Press-fit                 |      |
|                               | N =  | 1648382-1   | PCB Tail                            |      |
| #16                           | P =  | 6648319-1   | Crimp                               |      |
|                               | Q =  | 6648306-1   | Compliant Press-fit                 |      |
|                               | R =  | 6648383-1   | PCB Tail                            |      |
| #12                           | S =  | 6648318-1   | Crimp                               |      |
|                               | T =  | 6648304-1   | Compliant Press-fit                 |      |
|                               | U =  | 6648374-1   | PCB Tail                            |      |
| #12 Hot Plug                  | V =  | 1648384-1   | Crimp, Hot Plug                     |      |
|                               | W =  | 6648305-1   | Compliant Press-fit, Hot Plug       |      |
|                               | X =  | 1648387-1   | PCB Tail, Hot Plug                  |      |

Crimp and Threaded contacts are removable. Press-fit and PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                        |      |
|----------------------------|------------------------|------|
| Part Number                | Description            | Qty. |
| 1650399-1                  | Screw, No 10-32 UNC 2A |      |
| 1650401-1                  | Screw, M5 x 0.8        |      |

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## Double Drawer Connector Pin Side Layout Form

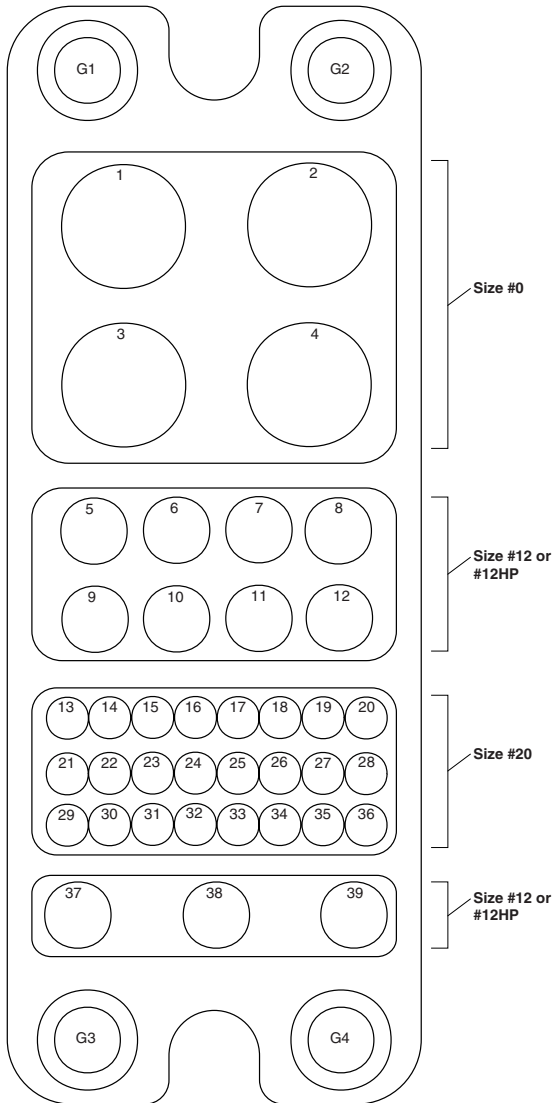
### Pin Assembly

1. Choose one housing from the **Pin Housing Selection Menu** table. Place an X in the appropriate guide pin circles, if guide pins are required.
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a size #20 premate PCB tail contact to be installed in contact position #13, write "Q" in circle #13.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



**Top Assembly Part Number  
Assigned by Tyco Electronics**

| Pin Housing Selection Menu |                                       | Check One |
|----------------------------|---------------------------------------|-----------|
| Part Number                | Description                           |           |
| 164852-1                   | Housing without guides                |           |
|                            | Housing with guides (#6-32 thread)    |           |
|                            | Housing with guides (M3 x 0.5 thread) |           |

| Pin Contact Selection Menu |      |             |                                     |      |
|----------------------------|------|-------------|-------------------------------------|------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length      | Qty. |
| #0                         | A =  | 1766811-1   | Crimp                               |      |
|                            | B =  | 1766819-1   | Probe Proof, crimp                  |      |
|                            | C =  | 1766230-1   | 1/4-20 Internal Thread              |      |
|                            | D =  | 1766274-1   | M6 x 1 Internal Thread              |      |
|                            | E =  | 1766269-1   | Probe Proof, 1/4-20 Internal Thread |      |
|                            | F =  | 1766275-1   | Probe Proof, M6 x 1 Internal Thread |      |
|                            | G =  | 1766268-1   | 1/4-20 External Thread              |      |
|                            | H =  | 1766231-1   | M6 x 1 External Thread              |      |
|                            | J =  | 1766270-1   | Probe Proof, 1/4-20 External Thread |      |
|                            | K =  | 1766276-1   | Probe Proof, M6 x 1 External Thread |      |
| #20                        | L =  | 1650155-1   | Crimp, standard                     |      |
|                            | M =  | 1650161-1   | Crimp, premate                      |      |
|                            | N =  | 1650162-2   | Crimp, postmate                     |      |
|                            | P =  | 1650283-1   | PCB tail, standard                  |      |
|                            | Q =  | 1650065-1   | PCB tail, premate                   |      |
|                            | R =  | 1650226-1   | PCB tail, postmate                  |      |
| #12                        | S =  | 1766193-1   | Crimp, standard                     |      |
|                            | T =  | 1766195-1   | Crimp, premate                      |      |
|                            | U =  | 1766196-1   | Crimp, postmate                     |      |
|                            | V =  | 1766245-1   | PCB tail, standard                  |      |
|                            | W =  | 1766250-1   | PCB tail, premate                   |      |
|                            | X =  | 1766249-1   | PCB tail, postmate                  |      |
| #12 Hot Plug               | Y =  | 1650153-2   | Crimp, standard, Hot Plug           |      |
|                            | Z =  | 1650156-2   | Crimp, premate, Hot Plug            |      |
|                            | AA = | 1650060-2   | PCB tail, standard, Hot Plug        |      |
|                            | AB = | 1650074-3   | PCB tail, premate, Hot Plug         |      |

Crimp and Threaded contacts are removable. PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                        |      |
|----------------------------|------------------------|------|
| Part Number                | Description            | Qty. |
| 1650399-1                  | Screw, No 10-32 UNC 2A |      |
| 1650401-1                  | Screw, M5 x 0.8        |      |

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## Double Drawer Connector Socket Side Layout Form

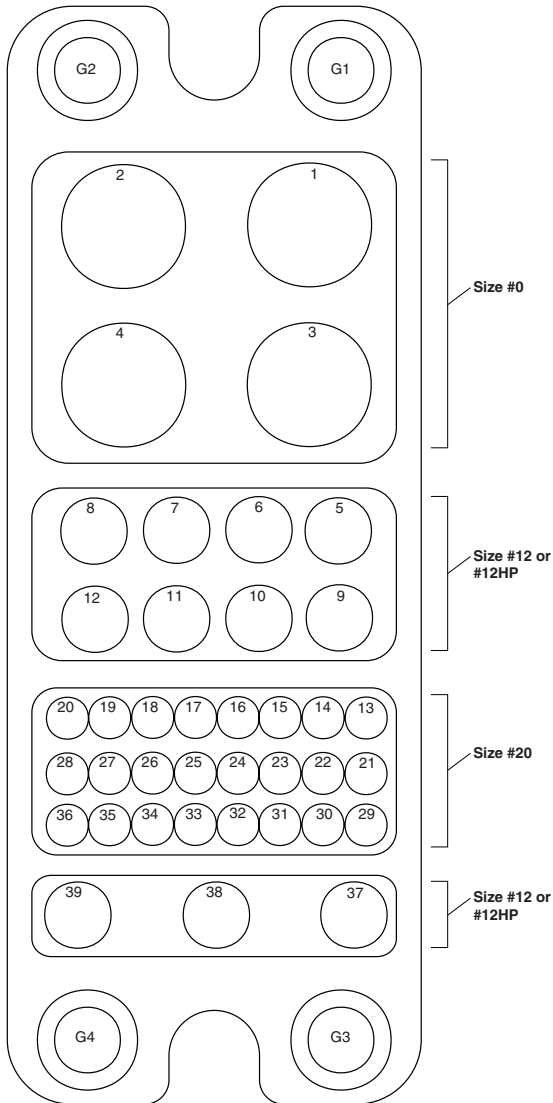
### Socket Assembly

1. Choose one housing from the **Socket Housing Selection Menu** table. Place an X in the appropriate guide pin circles, if guide pins are required.
2. Write the total quantity of each socket contact you require for each socket assembly in the **Qty** column of the **Socket Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Threaded, Press-fit and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 PCB tail contact to be installed in contact position #8, write "R" in circle #8.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
Socket Contact Insertion Side  
Socket Connector Rear Face Cavity Identification



**Top Assembly Part Number  
Assigned by Tyco Electronics**

| Socket Housing Selection Menu |                                       | Check One |
|-------------------------------|---------------------------------------|-----------|
| Part Number                   | Description                           |           |
| 1648578-1                     | Housing without guides                |           |
|                               | Housing with guides (#6-32 thread)    |           |
|                               | Housing with guides (M3 x 0.5 thread) |           |

| Socket Contact Selection Menu |      |             |                                     |       |
|-------------------------------|------|-------------|-------------------------------------|-------|
| Size                          | Ref. | Part Number | Termination Style & Pin Length      | Qty.  |
| #0                            | A =  | 6648405-1   | Crimp                               |       |
|                               | B =  | 6648418-1   | Probe Proof, crimp                  |       |
|                               | C =  | 6648416-1   | 1/4-20 Internal Thread              |       |
|                               | D =  | 6648428-1   | M6 x 1 Internal Thread              |       |
|                               | E =  | 6648419-1   | Probe Proof, 1/4-20 Internal Thread |       |
|                               | F =  | 6648429-1   | Probe Proof, M6 x 1 Internal Thread |       |
|                               | G =  | 6648417-1   | 1/4-20 External Thread              |       |
|                               | H =  | 6648430-1   | M6 x 1 External Thread              |       |
|                               | J =  | 6648420-1   | Probe Proof, 1/4-20 External Thread |       |
|                               | K =  | 6648431-1   | Probe Proof, M6 x 1 External Thread |       |
|                               | #20  | L =         | 1648325-1                           | Crimp |
| M =                           |      | 6648301-1   | Compliant Press-fit                 |       |
| N =                           |      | 1648382-1   | PCB Tail                            |       |
| #12                           | P =  | 6648318-1   | Crimp                               |       |
|                               | Q =  | 6648304-1   | Compliant Press-fit                 |       |
|                               | R =  | 6648374-1   | PCB Tail                            |       |
| #12 Hot Plug                  | S =  | 1648384-1   | Crimp, Hot Plug                     |       |
|                               | T =  | 6648305-1   | Compliant Press-fit, Hot Plug       |       |
|                               | U =  | 1648387-1   | PCB Tail, Hot Plug                  |       |

Crimp and Threaded contacts are removable. Press-fit and PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                        |      |
|----------------------------|------------------------|------|
| Part Number                | Description            | Qty. |
| 1650399-1                  | Screw, No 10-32 UNC 2A |      |
| 1650401-1                  | Screw, M5 x 0.8        |      |

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## DualPower Drawer Connector Pin Side Layout Form

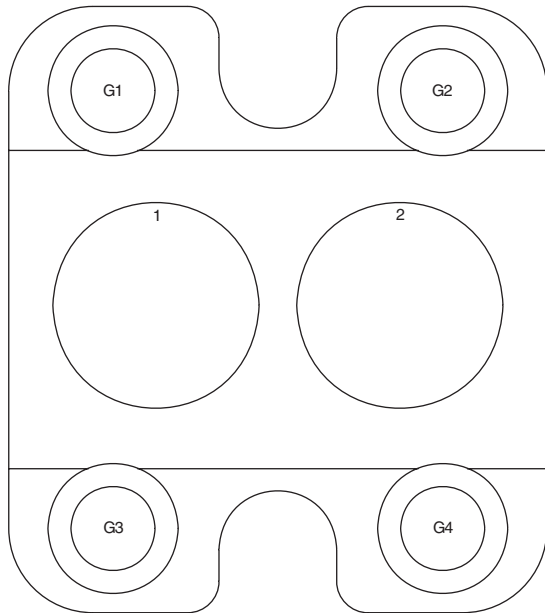
### Pin Assembly

1. Choose one housing from the **Pin Housing Selection Menu** table. Place an X in the appropriate guide pin circles, if guide pins are required.
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Threaded contacts are installed by Tyco Electronics; enter the letter reference of the desired threaded contact in the appropriate contact positions on the drawing: e.g., if you need a size #0 1/4-20 external thread contact to be installed in contact position #1, write "G" in circle #1.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



**Top Assembly Part Number  
Assigned by Tyco Electronics**

| Pin Housing Selection Menu |                                       | Check One |
|----------------------------|---------------------------------------|-----------|
| Part Number                | Description                           |           |
| 1648549-1                  | Housing without guides                |           |
|                            | Housing with guides (#6-32 thread)    |           |
|                            | Housing with guides (M3 x 0.5 thread) |           |

| Pin Contact Selection Menu |      |             |                                     |      |
|----------------------------|------|-------------|-------------------------------------|------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length      | Qty. |
| #0                         | A =  | 1766811-1   | Crimp                               |      |
|                            | B =  | 1766819-1   | Probe Proof, crimp                  |      |
|                            | C =  | 1766230-1   | 1/4-20 Internal Thread              |      |
|                            | D =  | 1766274-1   | M6 x 1 Internal Thread              |      |
|                            | E =  | 1766269-1   | Probe Proof, 1/4-20 Internal Thread |      |
|                            | F =  | 1766275-1   | Probe Proof, M6 x 1 Internal Thread |      |
|                            | G =  | 1766268-1   | 1/4-20 External Thread              |      |
|                            | H =  | 1766231-1   | M6 x 1 External Thread              |      |
|                            | J =  | 1766270-1   | Probe Proof, 1/4-20 External Thread |      |
|                            | K =  | 1766276-1   | Probe Proof, M6 x 1 External Thread |      |

Contacts are removable.

| Float Mount Shoulder Screw |                        | Qty. |
|----------------------------|------------------------|------|
| Part Number                | Description            |      |
| 1650399-1                  | Screw, No 10-32 UNC 2A |      |
| 1650401-1                  | Screw, M5 x 0.8        |      |

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## DualPower Drawer Connector Socket Side Layout Form

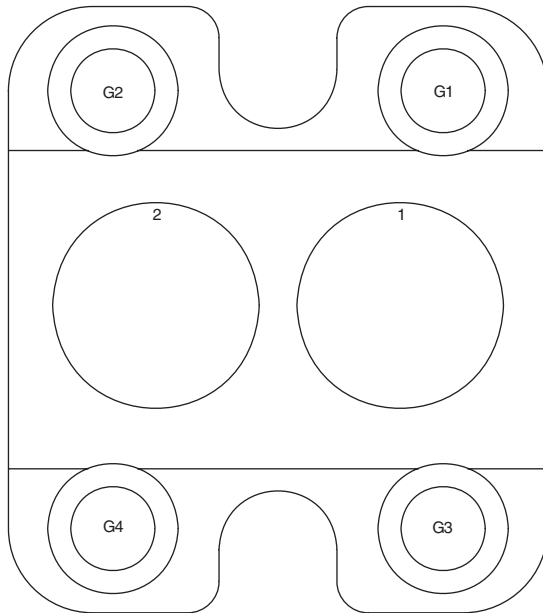
### Socket Assembly

1. Choose one housing from the **Socket Housing Selection Menu** table. Place an X in the appropriate guide pin circles, if guide pins are required.
2. Write the total quantity of each socket contact you require **for each socket assembly** in the **Qty** column of the **Socket Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Threaded contacts are installed by Tyco Electronics; enter the letter reference of the desired threaded contact in the appropriate contact positions on the drawing: e.g., if you need a size #0 1/4-20 external thread contact to be installed in contact position #1, write "G" in circle #1.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
Socket Contact Insertion Side  
Socket Connector Rear Face Cavity Identification



**Top Assembly Part Number  
Assigned by Tyco Electronics**

| Socket Housing Selection Menu |                                       | Check One |
|-------------------------------|---------------------------------------|-----------|
| Part Number                   | Description                           |           |
| 1648575-1                     | Housing without guides                |           |
|                               | Housing with guides (#6-32 thread)    |           |
|                               | Housing with guides (M3 x 0.5 thread) |           |

| Socket Contact Selection Menu |      |             |                                     |      |
|-------------------------------|------|-------------|-------------------------------------|------|
| Size                          | Ref. | Part Number | Termination Style & Pin Length      | Qty. |
| #0                            | A =  | 6648405-1   | Crimp                               |      |
|                               | B =  | 6648418-1   | Probe Proof, crimp                  |      |
|                               | C =  | 6648416-1   | 1/4-20 Internal Thread              |      |
|                               | D =  | 6648428-1   | M6 x 1 Internal Thread              |      |
|                               | E =  | 6648419-1   | Probe Proof, 1/4-20 Internal Thread |      |
|                               | F =  | 6648429-1   | Probe Proof, M6 x 1 Internal Thread |      |
|                               | G =  | 6648417-1   | 1/4-20 External Thread              |      |
|                               | H =  | 6648430-1   | M6 x 1 External Thread              |      |
|                               | J =  | 6648420-1   | Probe Proof, 1/4-20 External Thread |      |
|                               | K =  | 6648431-1   | Probe Proof, M6 x 1 External Thread |      |

Contacts are removable.

| Float Mount Shoulder Screw |                        |      |
|----------------------------|------------------------|------|
| Part Number                | Description            | Qty. |
| 1650399-1                  | Screw, No 10-32 UNC 2A |      |
| 1650401-1                  | Screw, M5 x 0.8        |      |

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## QuadPower Drawer Connector Pin Side Layout Form

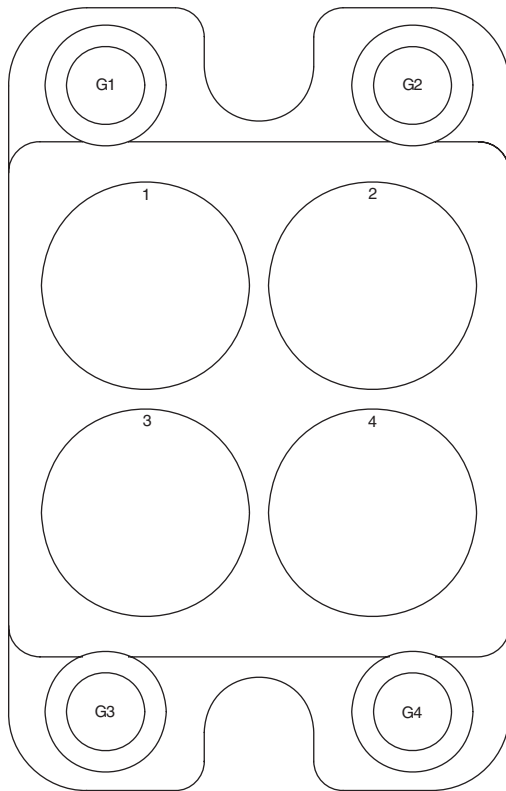
### Pin Assembly

1. Choose one housing from the **Pin Housing Selection Menu** table. Place an X in the appropriate guide pin circles, if guide pins are required.
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Threaded contacts are installed by Tyco Electronics; enter the letter reference of the desired threaded contact in the appropriate contact positions on the drawing: e.g., if you need a size #0 1/4-20 external thread contact to be installed in contact position #1, write "G" in circle #1.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



**Top Assembly Part Number  
Assigned by Tyco Electronics**

| Pin Housing Selection Menu |                                       | Check One |
|----------------------------|---------------------------------------|-----------|
| Part Number                | Description                           |           |
| 1648548-1                  | Housing without guides                |           |
|                            | Housing with guides (#6-32 thread)    |           |
|                            | Housing with guides (M3 x 0.5 thread) |           |

| Pin Contact Selection Menu |      |             |                                     |      |
|----------------------------|------|-------------|-------------------------------------|------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length      | Qty. |
| #0                         | A =  | 1766811-1   | Crimp                               |      |
|                            | B =  | 1766819-1   | Probe Proof, crimp                  |      |
|                            | C =  | 1766230-1   | 1/4-20 Internal Thread              |      |
|                            | D =  | 1766274-1   | M6 x 1 Internal Thread              |      |
|                            | E =  | 1766269-1   | Probe Proof, 1/4-20 Internal Thread |      |
|                            | F =  | 1766275-1   | Probe Proof, M6 x 1 Internal Thread |      |
|                            | G =  | 1766268-1   | 1/4-20 External Thread              |      |
|                            | H =  | 1766231-1   | M6 x 1 External Thread              |      |
|                            | J =  | 1766270-1   | Probe Proof, 1/4-20 External Thread |      |
|                            | K =  | 1766276-1   | Probe Proof, M6 x 1 External Thread |      |

Contacts are removable.

| Float Mount Shoulder Screw |                        |      |
|----------------------------|------------------------|------|
| Part Number                | Description            | Qty. |
| 1650399-1                  | Screw, No 10-32 UNC 2A |      |
| 1650401-1                  | Screw, M5 x 0.8        |      |

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.



## QuadPower Drawer Connector Socket Side Layout Form

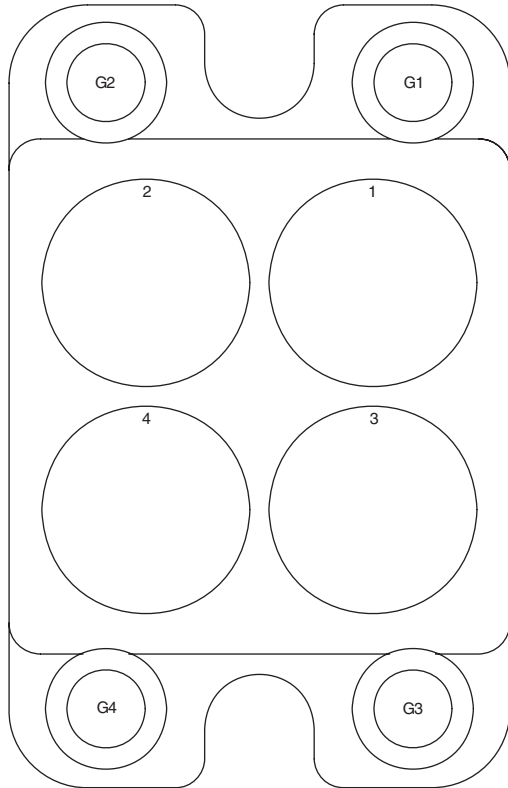
### Socket Assembly

1. Choose one housing from the **Socket Housing Selection Menu** table. Place an X in the appropriate guide pin circles, if guide pins are required.
2. Write the total quantity of each socket contact you require **for each socket assembly** in the **Qty** column of the **Socket Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Threaded contacts are installed by Tyco Electronics; enter the letter reference of the desired threaded contact in the appropriate contact positions on the drawing: e.g., if you need a size #0 1/4-20 external thread contact to be installed in contact position #1, write "G" in circle #1.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
Socket Contact Insertion Side  
Socket Connector Rear Face Cavity Identification



**Top Assembly Part Number  
Assigned by Tyco Electronics**

| Socket Housing Selection Menu |                                       | Check One                |
|-------------------------------|---------------------------------------|--------------------------|
| Part Number                   | Description                           |                          |
| 1648574-1                     | Housing without guides                | <input type="checkbox"/> |
|                               | Housing with guides (#6-32 thread)    | <input type="checkbox"/> |
|                               | Housing with guides (M3 x 0.5 thread) | <input type="checkbox"/> |

| Socket Contact Selection Menu |      |             |                                     |                          |
|-------------------------------|------|-------------|-------------------------------------|--------------------------|
| Size                          | Ref. | Part Number | Termination Style & Pin Length      | Qty.                     |
| #0                            | A =  | 6648405-1   | Crimp                               | <input type="checkbox"/> |
|                               | B =  | 6648418-1   | Probe Proof, crimp                  | <input type="checkbox"/> |
|                               | C =  | 6648416-1   | 1/4-20 Internal Thread              | <input type="checkbox"/> |
|                               | D =  | 6648428-1   | M6 x 1 Internal Thread              | <input type="checkbox"/> |
|                               | E =  | 6648419-1   | Probe Proof, 1/4-20 Internal Thread | <input type="checkbox"/> |
|                               | F =  | 6648429-1   | Probe Proof, M6 x 1 Internal Thread | <input type="checkbox"/> |
|                               | G =  | 6648417-1   | 1/4-20 External Thread              | <input type="checkbox"/> |
|                               | H =  | 6648430-1   | M6 x 1 External Thread              | <input type="checkbox"/> |
|                               | J =  | 6648420-1   | Probe Proof, 1/4-20 External Thread | <input type="checkbox"/> |
|                               | K =  | 6648431-1   | Probe Proof, M6 x 1 External Thread | <input type="checkbox"/> |

Contacts are removable.

| Float Mount Shoulder Screw |                        |                          |
|----------------------------|------------------------|--------------------------|
| Part Number                | Description            | Qty.                     |
| 1650399-1                  | Screw, No 10-32 UNC 2A | <input type="checkbox"/> |
| 1650401-1                  | Screw, M5 x 0.8        | <input type="checkbox"/> |

## In-Line QuadPower Drawer Connector Pin Side Layout Form

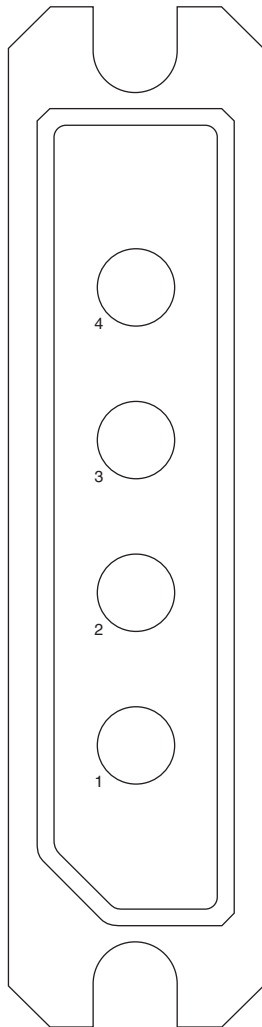
### Pin Assembly

1. Enter company and contact information (at right).
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Threaded contacts are installed by Tyco Electronics; enter the letter reference of the desired threaded contact in the appropriate contact positions on the drawing: e.g., if you need a size #0 M6 x 1 external thread contact to be installed in contact position #1, write "H" in circle #1.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



| Pin Housing Part Number |
|-------------------------|
| 1651493-1               |

| Pin Contact Selection Menu |           |                                     |                                     |      |
|----------------------------|-----------|-------------------------------------|-------------------------------------|------|
| Size                       | Ref.      | Part Number                         | Termination Style & Pin Length      | Qty. |
| <b>#0</b>                  | A =       | 1766811-1                           | Crimp                               |      |
|                            | B =       | 1766819-1                           | Probe Proof, crimp                  |      |
|                            | C =       | 1766230-1                           | 1/4-20 Internal Thread              |      |
|                            | D =       | 1766274-1                           | M6 x 1 Internal Thread              |      |
|                            | E =       | 1766269-1                           | Probe Proof, 1/4-20 Internal Thread |      |
|                            | F =       | 1766275-1                           | Probe Proof, M6 x 1 Internal Thread |      |
|                            | G =       | 1766268-1                           | 1/4-20 External Thread              |      |
|                            | H =       | 1766231-1                           | M6 x 1 External Thread              |      |
|                            | J =       | 1766270-1                           | Probe Proof, 1/4-20 External Thread |      |
| K =                        | 1766276-1 | Probe Proof, M6 x 1 External Thread |                                     |      |

Contacts are removable.

| Float Mount Shoulder Screw |                        |      |
|----------------------------|------------------------|------|
| Part Number                | Description            | Qty. |
| 1650399-1                  | Screw, No 10-32 UNC 2A |      |
| 1650401-1                  | Screw, M5 x 0.8        |      |

**Top Assembly Part Number  
Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## In-Line QuadPower Drawer Connector Socket Side Layout Form

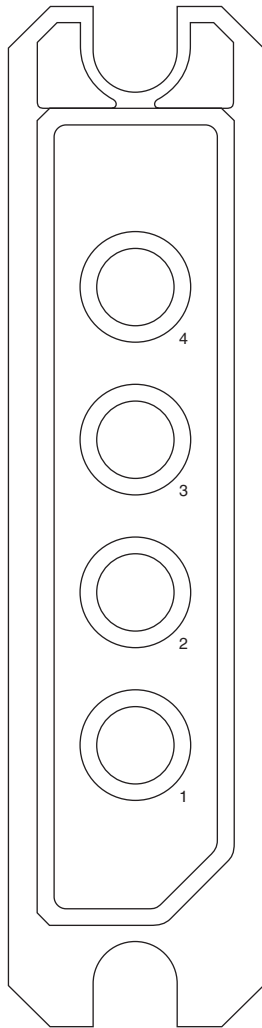
### Socket Assembly

1. Enter company and contact information (at right).
2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
3. Crimp contacts are shipped uninstalled. Threaded contacts are installed by Tyco Electronics; enter the letter reference of the desired threaded contact in the appropriate contact positions on the drawing: e.g., if you need a size #0 M6 x 1 external thread contact to be installed in contact position #1, write "H" in circle #1.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
Socket Contact Insertion Side  
Socket Connector Rear Face Cavity Identification



| Socket Housing Part Number |
|----------------------------|
| 1651404-1                  |

| Socket Contact Selection Menu |      |             |                                     |      |
|-------------------------------|------|-------------|-------------------------------------|------|
| Size                          | Ref. | Part Number | Termination Style & Pin Length      | Qty. |
| <b>#0</b>                     | A =  | 6648405-1   | Crimp                               |      |
|                               | B =  | 6648418-1   | Probe Proof, crimp                  |      |
|                               | C =  | 6648416-1   | 1/4-20 Internal Thread              |      |
|                               | D =  | 6648428-1   | M6 x 1 Internal Thread              |      |
|                               | E =  | 6648419-1   | Probe Proof, 1/4-20 Internal Thread |      |
|                               | F =  | 6648429-1   | Probe Proof, M6 x 1 Internal Thread |      |
|                               | G =  | 6648417-1   | 1/4-20 External Thread              |      |
|                               | H =  | 6648430-1   | M6 x 1 External Thread              |      |
|                               | J =  | 6648420-1   | Probe Proof, 1/4-20 External Thread |      |
|                               | K =  | 6648431-1   | Probe Proof, M6 x 1 External Thread |      |

Contacts are removable.

| Float Mount Shoulder Screw |                        |      |
|----------------------------|------------------------|------|
| Part Number                | Description            | Qty. |
| 1650399-1                  | Screw, No 10-32 UNC 2A |      |
| 1650401-1                  | Screw, M5 x 0.8        |      |

**Top Assembly Part Number  
Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## W5 Power Drawer Connector Pin Side Layout Form

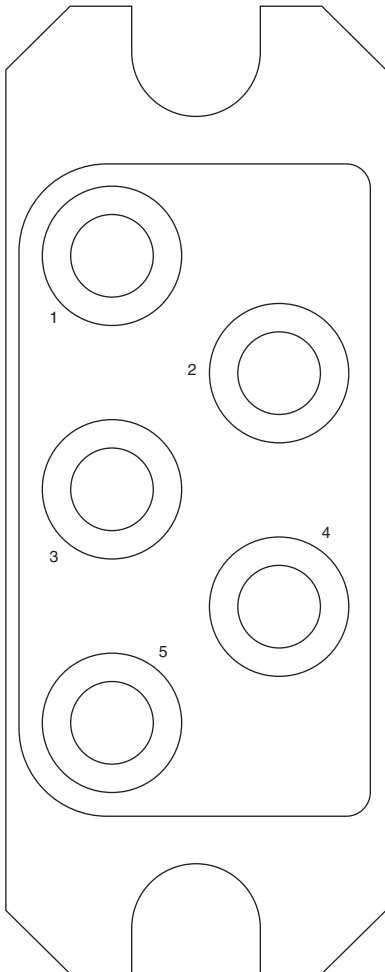
### Pin Assembly

1. Enter company and contact information (at right).
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Threaded contacts are installed by Tyco Electronics; enter the letter reference of the desired threaded contact in the appropriate contact positions on the drawing: e.g., if you need a size #4 1/4-20 external thread contact to be installed in contact position #1, write "B" in circle #1.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



| Pin Housing Part Number |
|-------------------------|
| 6651457-1               |

| Pin Contact Selection Menu |      |             |                                |      |
|----------------------------|------|-------------|--------------------------------|------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| <b>#4</b>                  | A =  | 1766232-1   | Crimp, standard                |      |
|                            | B =  | 1766812-1   | 1/4-20 External Thread         |      |
|                            | C =  | 1766283-1   | M5 Internal Thread             |      |

Contacts are removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number  
Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## W5 Power Drawer Connector Socket Side Layout Form

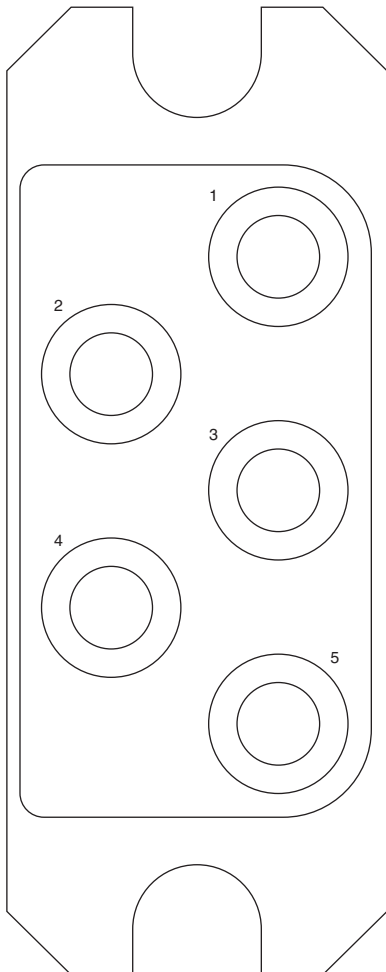
### Socket Assembly

1. Enter company and contact information (at right).
2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
3. Crimp contacts are shipped uninstalled. Threaded contacts are installed by Tyco Electronics; enter the letter reference of the desired threaded contact in the appropriate contact positions on the drawing: e.g., if you need a size #4 1/2-20 external thread contact to be installed in contact position #1, write "B" in circle #1.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
Socket Contact Insertion Side  
Socket Connector Rear Face Cavity Identification



| Socket Housing Part Number |
|----------------------------|
| 6651458-1                  |

| Socket Contact Selection Menu |      |             |                                |      |
|-------------------------------|------|-------------|--------------------------------|------|
| Size                          | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #4                            | A =  | 6648434-1   | Crimp, standard                |      |
|                               | B =  | 6648435-1   | 1/4-20 External Thread         |      |
|                               | C =  | 6648335-1   | M5 Internal Thread             |      |

Contacts are removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number  
Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

**HV8P Drawer Connector Pin Side Layout Form**

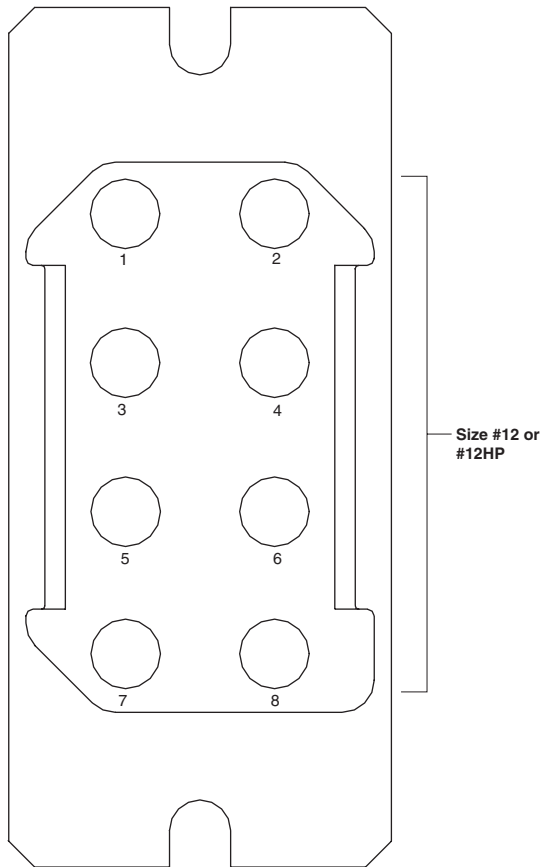
**Pin Assembly**

1. Enter company and contact information (at right).
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 premate PCB tail contact to be installed in contact position #8, write "E" in circle #8.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



| Pin Housing Part Number |
|-------------------------|
| 1648127-1 = Fixed Mount |

| Pin Contact Selection Menu |      |             |                                |      |
|----------------------------|------|-------------|--------------------------------|------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #12                        | A =  | 1766193-1   | Crimp, standard                |      |
|                            | B =  | 1766195-1   | Crimp, premate                 |      |
|                            | C =  | 1766196-1   | Crimp, postmate                |      |
|                            | D =  | 1766245-1   | PCB tail, standard             |      |
|                            | E =  | 1766250-1   | PCB tail, premate              |      |
|                            | F =  | 1766249-1   | PCB tail, postmate             |      |
| #12 Hot Plug               | G =  | 1650153-2   | Crimp, standard, Hot Plug      |      |
|                            | H =  | 1650156-2   | Crimp, premate, Hot Plug       |      |
|                            | J =  | 1650060-2   | PCB tail, standard, Hot Plug   |      |
|                            | K =  | 1650074-3   | PCB tail, premate, Hot Plug    |      |

Crimp contacts are removable. PCB tail contacts are non-removable.

**Top Assembly Part Number Assigned by Tyco Electronics**

**HV8P Drawer Connector Socket Side Layout Form**

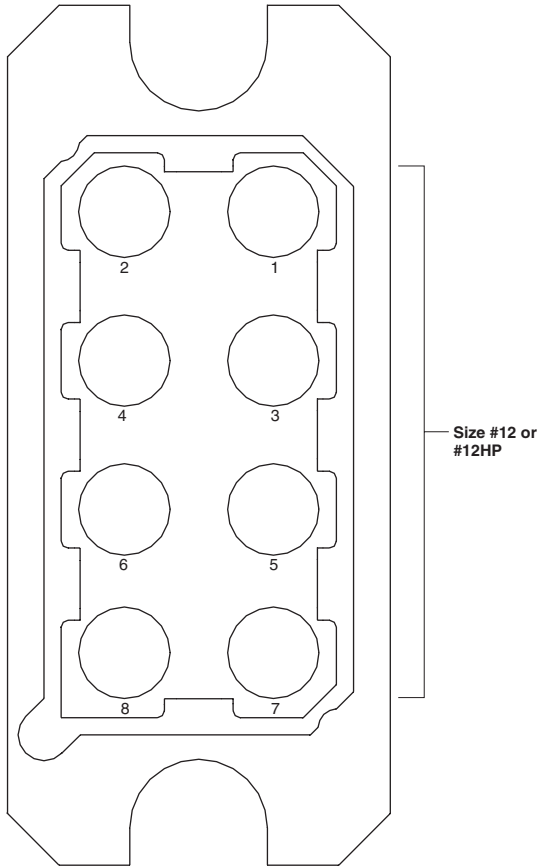
**Socket Assembly**

1. Enter company and contact information (at right).
2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 PCB tail contact to be installed in contact position #8, write "C" in circle #8.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
Socket Contact Insertion Side  
Socket Connector Rear Face Cavity Identification



| Socket Housing Part Number |
|----------------------------|
| 1648128-1 = Float Mount    |

| Socket Contact Selection Menu |      |             |                                |      |
|-------------------------------|------|-------------|--------------------------------|------|
| Size                          | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #12                           | A =  | 6648318-1   | Crimp                          |      |
|                               | B =  | 6648304-1   | Compliant Press-fit            |      |
|                               | C =  | 6648374-1   | PCB Tail                       |      |
| #12 Hot Plug                  | D =  | 1648384-1   | Crimp, Hot Plug                |      |
|                               | E =  | 6648305-1   | Compliant Press-fit, Hot Plug  |      |
|                               | F =  | 1648387-1   | PCB Tail, Hot Plug             |      |

Crimp contacts are removable. Press-fit and PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number**  
Assigned by Tyco Electronics

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

**P10S0 Drawer Connector Pin Side Layout Form**

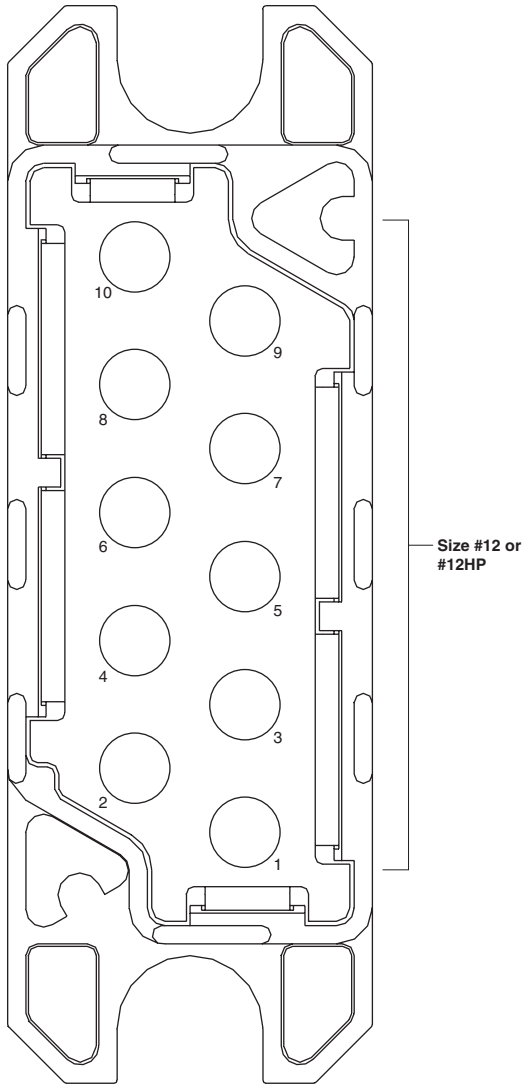
**Pin Assembly**

1. Enter company and contact information (at right).
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a hot plug size #12 premate PCB tail contact to be installed in contact position #10, write "K" in circle #10.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



| Pin Housing Part Number |
|-------------------------|
| 1648568-1               |

| Pin Contact Selection Menu |      |             |                                |      |
|----------------------------|------|-------------|--------------------------------|------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #12                        | A =  | 1766193-1   | Crimp, standard                |      |
|                            | B =  | 1766195-1   | Crimp, premate                 |      |
|                            | C =  | 1766196-1   | Crimp, postmate                |      |
|                            | D =  | 1766245-1   | PCB tail, standard             |      |
|                            | E =  | 1766250-1   | PCB tail, premate              |      |
|                            | F =  | 1766249-1   | PCB tail, postmate             |      |
| #12 Hot Plug               | G =  | 1650153-2   | Crimp, standard, Hot Plug      |      |
|                            | H =  | 1650156-2   | Crimp, premate, Hot Plug       |      |
|                            | J =  | 1650060-2   | PCB tail, standard, Hot Plug   |      |
|                            | K =  | 1650074-3   | PCB tail, premate, Hot Plug    |      |

Crimp contacts are removable. PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number Assigned by Tyco Electronics**

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.



**P10S0 Drawer Connector Socket Side Layout Form**

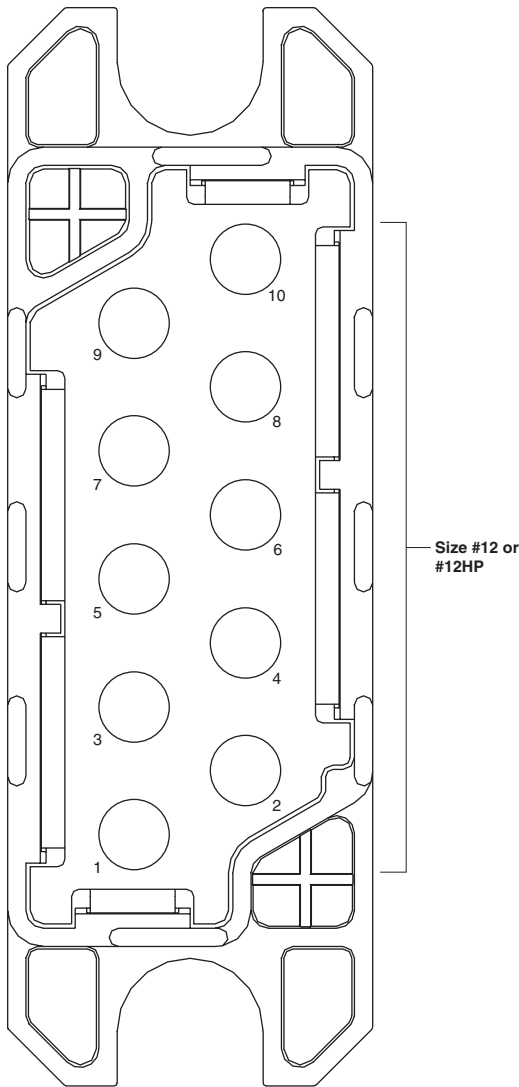
**Socket Assembly**

1. Enter company and contact information (at right).
2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a hot plug size #12 PCB tail contact to be installed in contact position #10, write "F" in circle #10.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
Socket Contact Insertion Side  
Socket Connector Rear Face Cavity Identification



| Socket Housing Part Number |
|----------------------------|
| 1648596-1                  |

| Socket Contact Selection Menu |      |             |                                |      |
|-------------------------------|------|-------------|--------------------------------|------|
| Size                          | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #12                           | A =  | 6648318-1   | Crimp                          |      |
|                               | B =  | 6648304-1   | Compliant Press-fit            |      |
|                               | C =  | 6648374-1   | PCB Tail                       |      |
| #12 Hot Plug                  | D =  | 1648384-1   | Crimp, Hot Plug                |      |
|                               | E =  | 6648305-1   | Compliant Press-fit, Hot Plug  |      |
|                               | F =  | 1648387-1   | PCB Tail, Hot Plug             |      |

Crimp contacts are removable. Press-fit and PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number Assigned by Tyco Electronics**

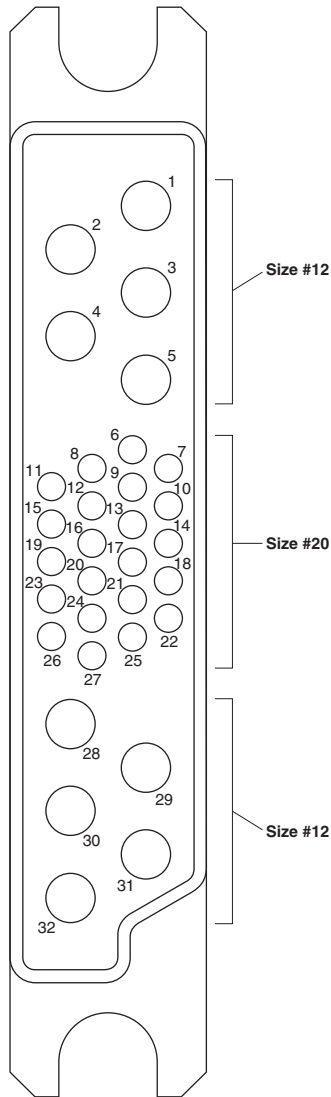
AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## P10S22 Drawer Connector Pin Side Layout Form

### Pin Assembly

1. Enter company and contact information (at right).
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 standard PCB tail contact to be installed in contact position #1, write "K" in circle #1.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

| Pin Housing Part Number |
|-------------------------|
| 1648211-1               |

| Pin Contact Selection Menu |      |             |                                |      |
|----------------------------|------|-------------|--------------------------------|------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #20                        | A =  | 1650155-1   | Crimp, standard                |      |
|                            | B =  | 1650161-1   | Crimp, premate                 |      |
|                            | C =  | 1650162-2   | Crimp, postmate                |      |
|                            | D =  | 1650283-1   | PCB tail, standard             |      |
|                            | E =  | 1650065-1   | PCB tail, premate              |      |
|                            | F =  | 1650226-1   | PCB tail, postmate             |      |
| #12                        | G =  | 1766193-1   | Crimp, standard                |      |
|                            | H =  | 1766195-1   | Crimp, premate                 |      |
|                            | J =  | 1766196-1   | Crimp, postmate                |      |
|                            | K =  | 1766245-1   | PCB tail, standard             |      |
|                            | L =  | 1766250-1   | PCB tail, premate              |      |
|                            | M =  | 1766249-1   | PCB tail, postmate             |      |
| #12 Hot Plug               | N =  | 1650153-2   | Crimp, standard, Hot Plug      |      |
|                            | P =  | 1650156-2   | Crimp, premate, Hot Plug       |      |
|                            | Q =  | 1650060-2   | PCB tail, standard, Hot Plug   |      |
|                            | R =  | 1650074-3   | PCB tail, premate, Hot Plug    |      |

Crimp contacts are removable. PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number**  
Assigned by Tyco Electronics

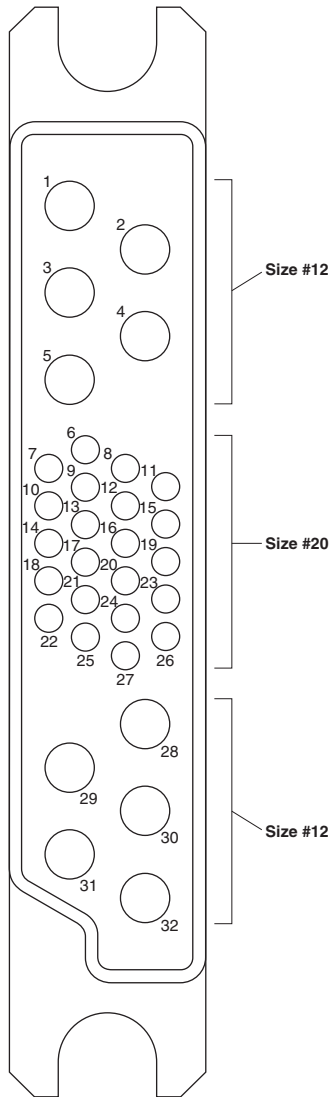
AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## P10S22 Drawer Connector Socket Side Layout Form

### Socket Assembly

1. Enter company and contact information (at right).
2. Write the total quantity of each socket contact you require **for each socket assembly** in the **Qty** column of the **Socket Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 PCB tail contact to be installed in contact position #1, write "F" in circle #1.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
Socket Contact Insertion Side  
Socket Connector Rear Face Cavity Identification



| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

| Socket Housing Part Number |
|----------------------------|
| 1648212-1                  |

| Socket Contact Selection Menu |      |             |                                |      |
|-------------------------------|------|-------------|--------------------------------|------|
| Size                          | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| <b>#20</b>                    | A =  | 1648325-1   | Crimp                          |      |
|                               | B =  | 6648301-1   | Compliant Press-fit            |      |
|                               | C =  | 1648382-1   | PCB Tail                       |      |
| <b>#12</b>                    | D =  | 6648318-1   | Crimp                          |      |
|                               | E =  | 6648304-1   | Compliant Press-fit            |      |
|                               | F =  | 6648374-1   | PCB Tail                       |      |
| <b>#12 Hot Plug</b>           | G =  | 1648384-1   | Crimp, Hot Plug                |      |
|                               | H =  | 6648305-1   | Compliant Press-fit, Hot Plug  |      |
|                               | J =  | 1648387-1   | PCB Tail, Hot Plug             |      |

Crimp contacts are removable. Press-fit and PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number**  
Assigned by Tyco Electronics

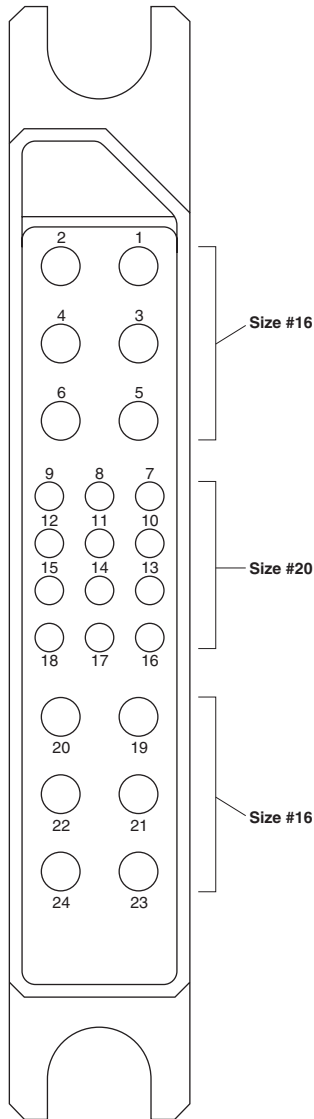
AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## P12S12 Drawer Connector Pin Side Layout Form

### Pin Assembly

1. Enter company and contact information (at right).
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a size #20 premate PCB tail contact to be installed in contact position #9, write "E" in circle #9.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin Connector Rear Face Cavity Identification



| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

| Pin Housing Part Number |
|-------------------------|
| 1651202-1               |

| Pin Contact Selection Menu |      |             |                                |      |
|----------------------------|------|-------------|--------------------------------|------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #20                        | A =  | 1650155-1   | Crimp, standard                |      |
|                            | B =  | 1650161-1   | Crimp, premate                 |      |
|                            | C =  | 1650162-2   | Crimp, postmate                |      |
|                            | D =  | 1650283-1   | PCB tail, standard             |      |
|                            | E =  | 1650065-1   | PCB tail, premate              |      |
|                            | F =  | 1650226-1   | PCB tail, postmate             |      |
| #16                        | G =  | 1766194-1   | Crimp, standard                |      |
|                            | H =  | 1766198-1   | Crimp, premate                 |      |
|                            | J =  | 1766199-1   | Crimp, postmate                |      |
|                            | K =  | 1766222-1   | PCB tail, standard             |      |
|                            | L =  | 1766223-1   | PCB tail, premate              |      |
|                            | M =  | 1766818-1   | PCB tail, postmate             |      |

Crimp contacts are removable. PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number  
Assigned by Tyco Electronics**

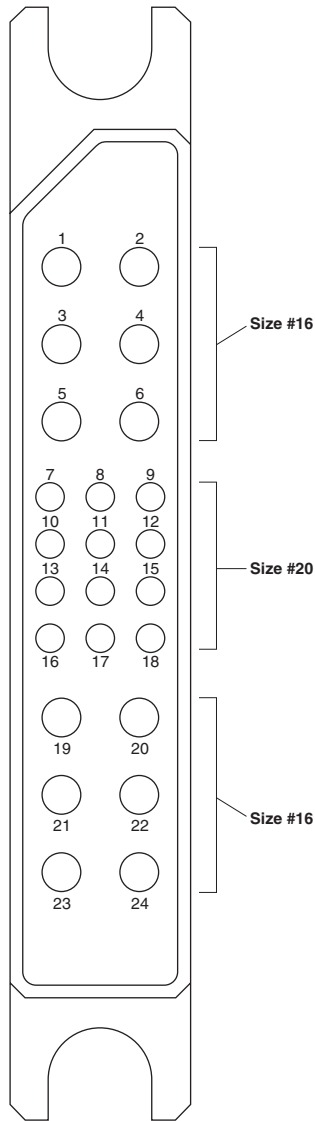
AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## P12S12 Drawer Connector Socket Side Layout Form

### Socket Assembly

1. Enter company and contact information (at right).
2. Write the total quantity of each socket contact you require **for each socket assembly** in the **Qty** column of the **Socket Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a size #20 PCB tail contact to be installed in contact position #9, write "C" in circle #9.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
Socket Contact Insertion Side  
Socket Connector Rear Face Cavity Identification



| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

| Socket Housing Part Number |
|----------------------------|
| 1651203-1                  |

| Socket Contact Selection Menu |      |             |                                |      |
|-------------------------------|------|-------------|--------------------------------|------|
| Size                          | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #20                           | A =  | 1648325-1   | Crimp                          |      |
|                               | B =  | 6648301-1   | Compliant Press-fit            |      |
|                               | C =  | 1648382-1   | PCB Tail                       |      |
| #16                           | D =  | 6648319-1   | Crimp                          |      |
|                               | E =  | 6648306-1   | Compliant Press-fit            |      |
|                               | F =  | 6648383-1   | PCB Tail                       |      |

Crimp contacts are removable. Press-fit and PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number  
Assigned by Tyco Electronics**

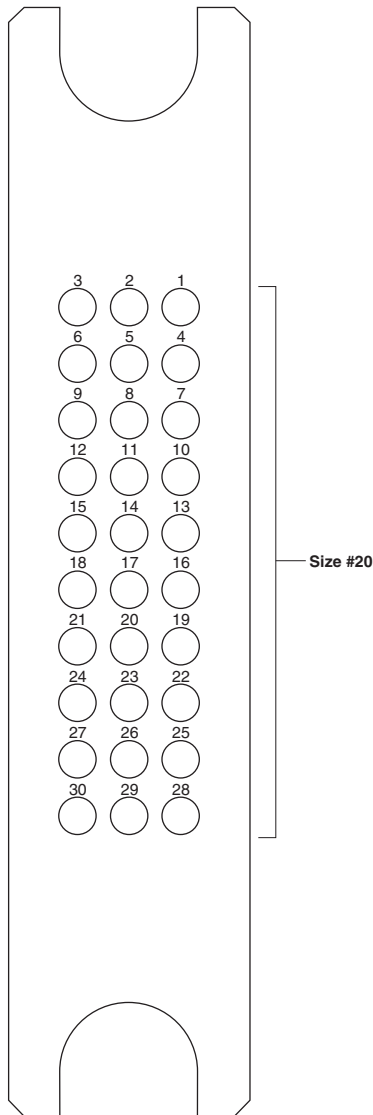
AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

## POS30 Drawer Connector Pin Side Layout Form

### Pin Assembly

1. Enter company and contact information (at right).
2. Write the total quantity of each pin contact you require **for each pin assembly** in the **Qty** column of the **Pin Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a size #20 premate PCB tail contact to be installed in contact position #1, write "E" in circle #1.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

**Pin Connector (Rear Face)**  
 Pin Contact Insertion Side  
 Pin Connector Rear Face Cavity Identification



| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

| Pin Housing Part Number |
|-------------------------|
| 6651204-1               |

| Pin Contact Selection Menu |      |             |                                |      |
|----------------------------|------|-------------|--------------------------------|------|
| Size                       | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #20                        | A =  | 1650155-1   | Crimp, standard                |      |
|                            | B =  | 1650161-1   | Crimp, premate                 |      |
|                            | C =  | 1650162-2   | Crimp, postmate                |      |
|                            | D =  | 1650283-1   | PCB tail, standard             |      |
|                            | E =  | 1650065-1   | PCB tail, premate              |      |
|                            | F =  | 1650226-1   | PCB tail, postmate             |      |

Crimp contacts are removable. PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number  
 Assigned by Tyco Electronics**

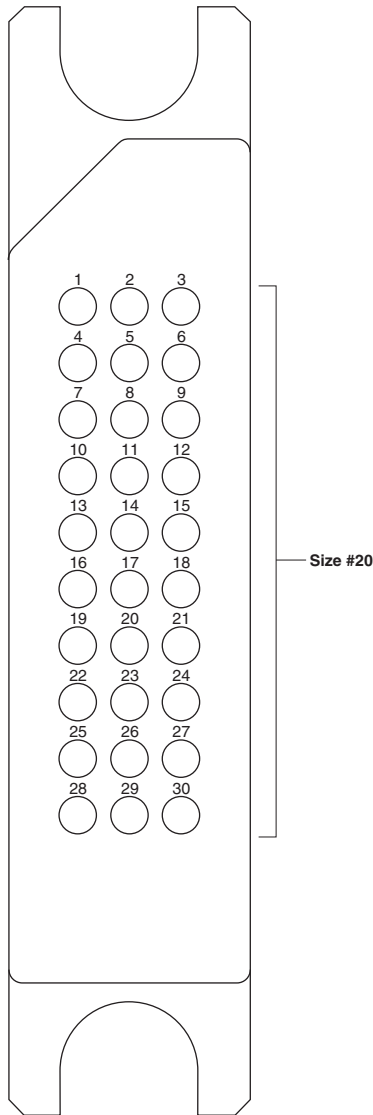
AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

**POS30 Drawer Connector Socket Side Layout Form**

**Socket Assembly**

1. Enter company and contact information (at right).
2. Write the total quantity of each socket contact you require **for each socket assembly** in the **Qty** column of the **Socket Contact Selection Menu** table.
3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a size #20 PCB tail contact to be installed in contact position #1, write "C" in circle #1.
4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

**Socket Connector (Rear Face)**  
 Socket Contact Insertion Side  
 Socket Connector Rear Face Cavity Identification



| ENTER CUSTOMER INFORMATION  |                          |
|---|--------------------------|
| Company   | Location                 |
| Contact Name  | Title                    |
| Telephone   | Fax                      |
| Email Address   |                          |
| I am: <input type="checkbox"/> End user<br><input type="checkbox"/> Contract manufacturer (end user: _____) |                          |
| Signature   | Today's Date             |
|   | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

| Socket Housing Part Number |
|----------------------------|
| 6651205-1                  |

| Socket Contact Selection Menu |      |             |                                |      |
|-------------------------------|------|-------------|--------------------------------|------|
| Size                          | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| #20                           | A =  | 1648325-1   | Crimp                          |      |
|                               | B =  | 6648301-1   | Compliant Press-fit            |      |
|                               | C =  | 1648382-1   | PCB Tail                       |      |

Crimp contacts are removable. Press-fit and PCB tail contacts are non-removable.

| Float Mount Shoulder Screw |                       |      |
|----------------------------|-----------------------|------|
| Part Number                | Description           | Qty. |
| 1650402-1                  | Screw, No 8-32 UNC 2A |      |
| 1650589-1                  | Screw, M4 x 0.7       |      |

**Top Assembly Part Number**  
 Assigned by Tyco Electronics

AMP, ELCON, TE LOGO and TYCO ELECTRONICS are trademarks of Tyco Electronics Corporation.

**Tyco Electronics Corporation**  
Harrisburg, PA

[tycoelectronics.com](http://tycoelectronics.com)

6-1773444-7-LUG-PDF-10-07





# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[1648168-1](#)