



# AMP & ELCON Power Connector Layout Forms



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### 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.

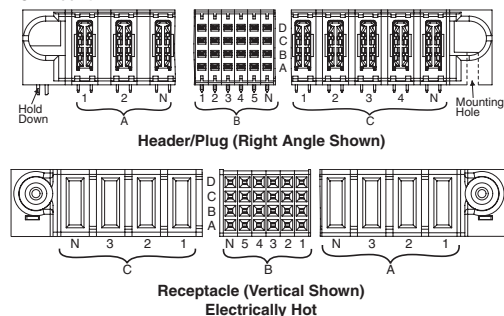
### Getting the Information You Need

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)

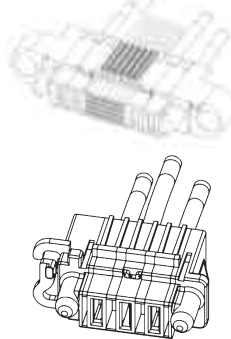
**RoHS  
Customer  
Support  
Center**

## MULTI-BEAM XL Custom Connector Worksheet

**PCB Mount**

**Cable Mount**

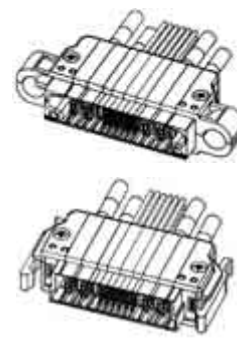
XYZ Floating

Slide-to-Lock


**Plugs**

XYZ Floating

Squeeze-to-Release



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

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                              |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>1. Application</b>                  | <input type="checkbox"/> Board-to-Board                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> Cable-to-Board      |
| <b>2. Gender</b>                       | <input type="checkbox"/> Plug (Male)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> Receptacle (Female) |
| <b>3. Orientation</b>                  | Cable Only → <input type="checkbox"/> Blind Mate specify Floating or Slide-to-Lock receptacle <input type="checkbox"/> Latching<br>PCB Only → <input type="checkbox"/> Right Angle <input type="checkbox"/> Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |
| <b>4. Termination</b> (Cable Only)     | Power <input type="checkbox"/> 8 AWG <input type="checkbox"/> 10 AWG <input type="checkbox"/> 12 AWG <input type="checkbox"/> 14 AWG<br>Signal <input type="checkbox"/> 22 AWG <input type="checkbox"/> 24 AWG <input type="checkbox"/> 26 AWG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                              |
| <b>5. Termination Style</b> (PCB Only) | <input type="checkbox"/> Solder tail .135" [3.43mm] <input type="checkbox"/> Press-Fit .120" [3.05mm]<br><input type="checkbox"/> Solder tail .165" [4.19mm] <input type="checkbox"/> Press-Fit .135" [3.43mm]<br><input type="checkbox"/> Press-Fit .165" [4.19mm]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              |
| <b>6. Mounting to PCB</b>              | <input type="checkbox"/> Hold Downs (one on either end)<br><input type="checkbox"/> .122" [3.10mm] Mounting holes (Accepts #4 screws, right angle connectors only)<br><input type="checkbox"/> .150" [3.81mm] Mounting holes (Accepts #6 screws, right angle connectors only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                              |
| <b>7. Select # of Contacts</b>         | <b>Section A: (Power Contacts)</b> <input type="checkbox"/> Enter # of Power Contacts (Loaded with standard length Power Contacts)<br><input type="checkbox"/> Enter the position(s) to be loaded with Pre-mate contact (Receptacles only)<br>(Mate-First-Break-Last) ( i.e. #1,#3, etc.)<br>Contact Centerline Spacings: <input type="checkbox"/> .200" [5.08mm] (HDP)<br><input type="checkbox"/> .250" [6.35mm] (P)<br><input type="checkbox"/> .300" [7.62mm](ACP)<br><b>Section B: (Signal Contacts)</b> <input type="checkbox"/> Enter # of Signal Contacts (Multiples of 8 are standard, i.e. 16, 24, 32...)<br><input type="checkbox"/> Enter the Positions with Post-Mate Contacts (Mate-Last-Break-First, Plugs only)<br>Note: Row A is standard (i.e. A1, A3, etc.)<br><b>Section C: (Power Contacts)</b> <input type="checkbox"/> Enter # of Power Contacts (Loaded with standard length Power Contacts)<br><input type="checkbox"/> Enter the positions to be loaded with Pre-Mate Contacts (Receptacles only)<br>(Mate-First-Break-Last, i.e. #1, #3, etc.)<br>Contact Centerline Spacings: <input type="checkbox"/> .200" [5.08mm] (HDP)<br><input type="checkbox"/> .250" [6.35mm] (P)<br><input type="checkbox"/> .300" [7.62mm] (ACP) |                                              |

**8. Additional Requirements**


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**9. Customer Information**

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

(Submit to your local Tyco Electronics Sales Engineer)

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## MINIPAK Custom Connector Worksheet

### MINIPAK Connector

- Enter your information in the table to the right.
- Specify the design requirements for your MINIPAK Connector configuration in steps 1 through 5 shown below.
- 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 |
| Current (A)     |          |     |     |     |     |     |     |     |
| Voltage (V)     |          |     |     |     |     |     |     |     |
| Blade Length    | Standard |     |     |     |     |     |     |     |
|                 | Premate  |     |     |     |     |     |     |     |

### 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:

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## 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).

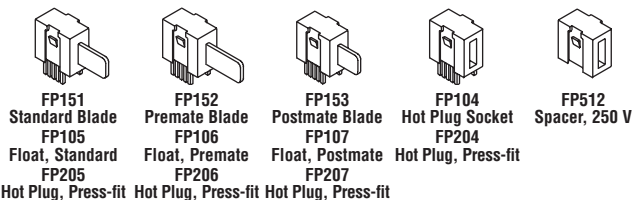
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                                                                                                                         |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | 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).

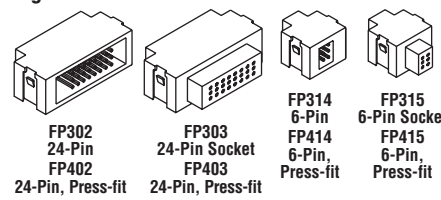
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                                                                                                                         |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | FP | 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

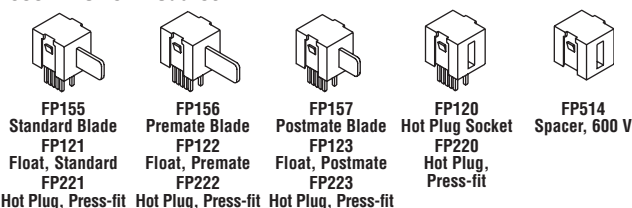
#### 250 V Power Modules



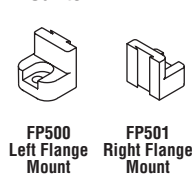
#### Signal Modules



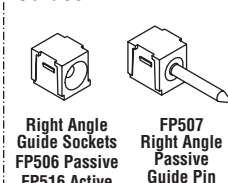
#### 600 V Power Modules



#### Mounts

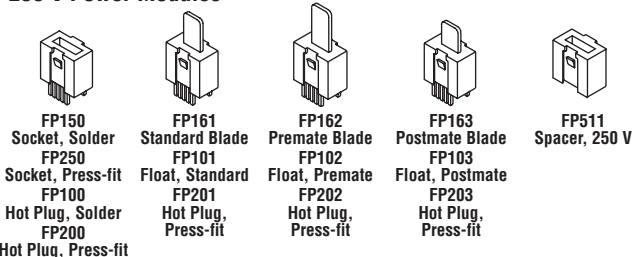


#### Guides

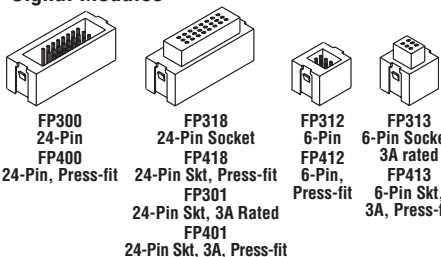


### Straight Mount

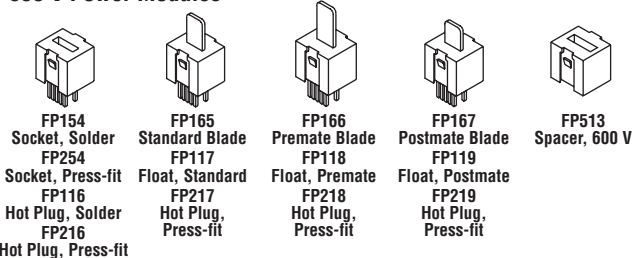
#### 250 V Power Modules



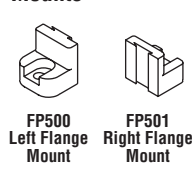
#### Signal Modules



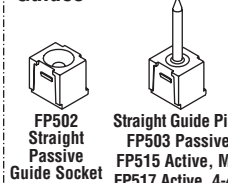
#### 600 V Power Modules



#### Mounts



#### Guides



**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.

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## Mini Drawer Connector Pin Side Layout Form

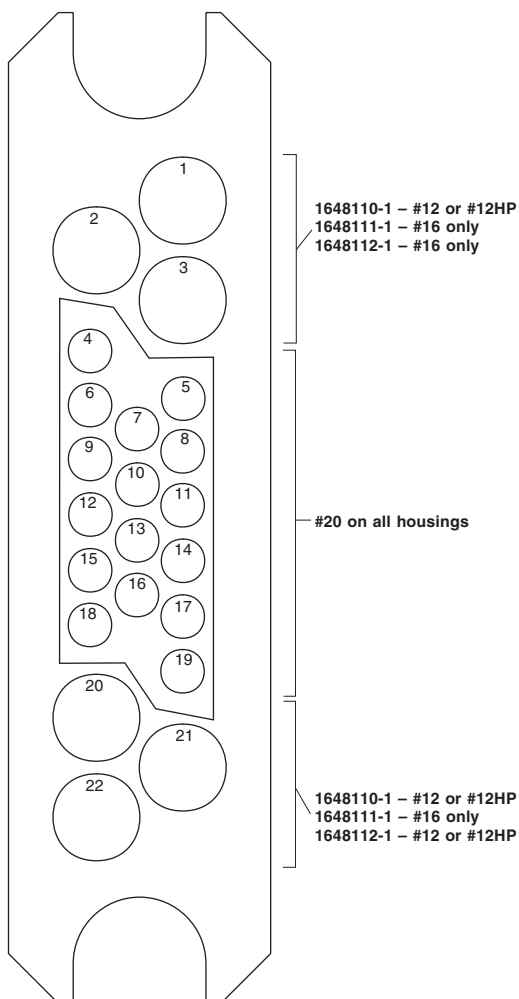
### Pin Assembly

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



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

| Pin Housing Selection Menu |                                                    | Check One |
|----------------------------|----------------------------------------------------|-----------|
| Part Number                | Description                                        |           |
| 1648110-1                  | #12, #20, #12 Pin Housing, Float or Fixed Mounting |           |
| 1648111-1                  | #16, #20, #16 Pin Housing, Float or Fixed Mounting |           |
| 1648112-1                  | #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       |  |      |

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## Mini Drawer Connector Socket Side Layout Form

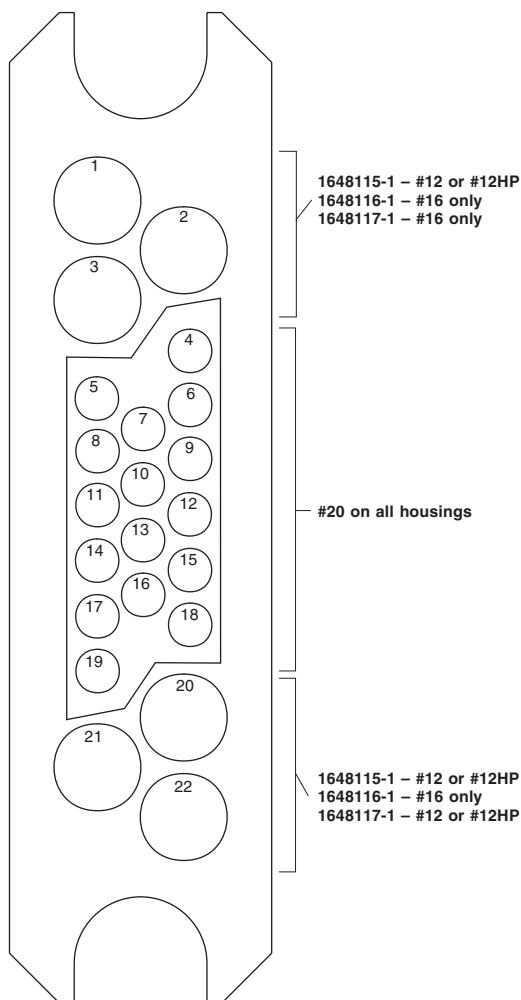
### Socket Assembly

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**

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## Lower Drawer Connector Pin Side Layout Form

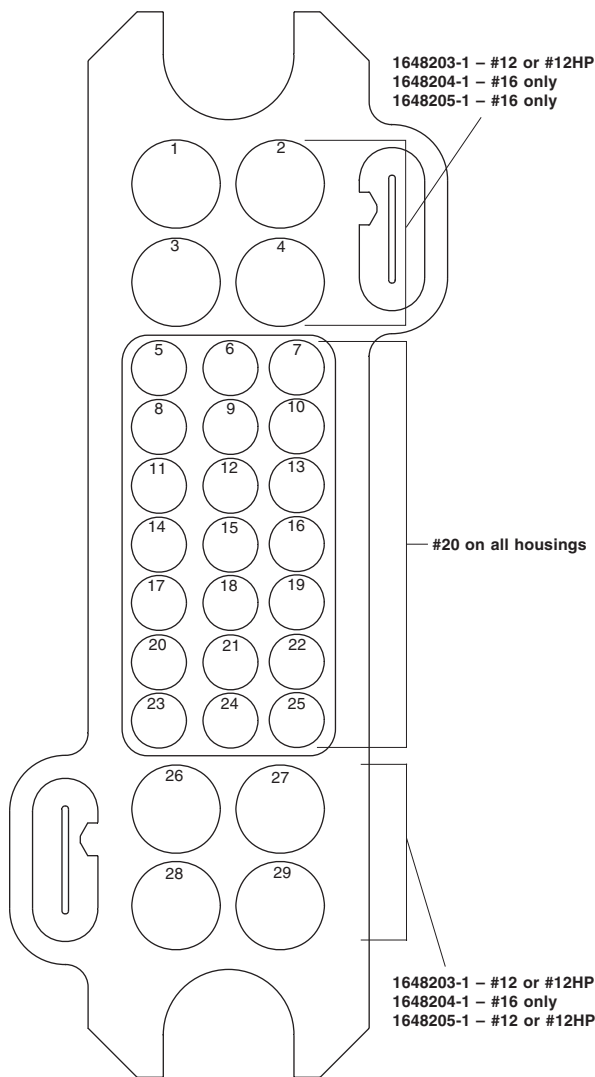
### Pin Assembly

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 |      |             |                                |      |
|----------------------------|------|-------------|--------------------------------|------|
| 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       |      |

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## Lower Drawer Connector Socket Side Layout Form

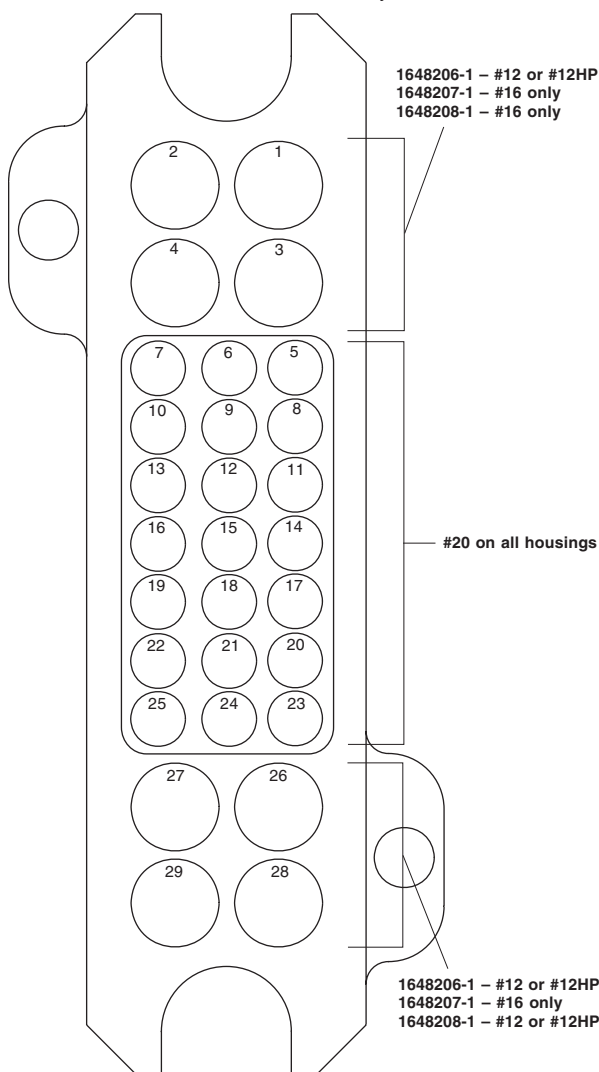
### Socket Assembly

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**

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## 75A Middle Drawer Connector Pin Side Layout Form

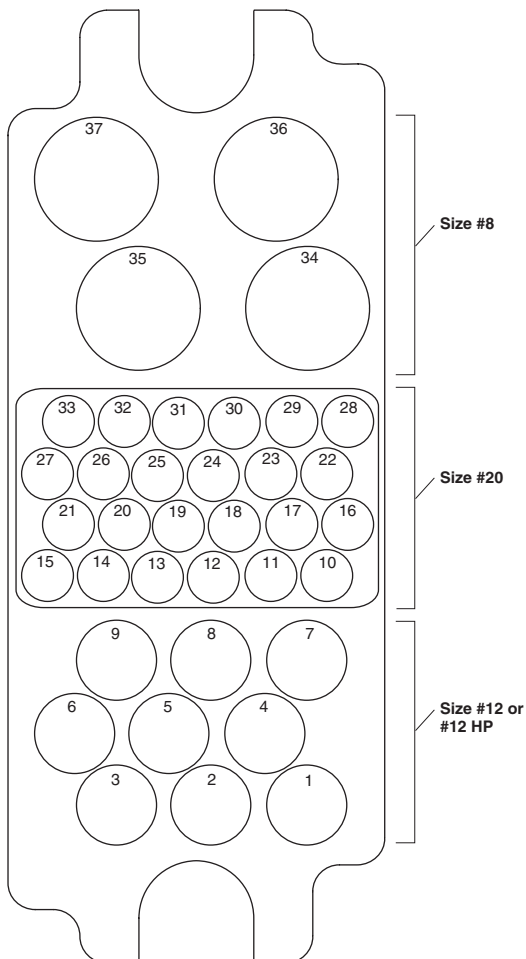
### Pin Assembly

- Choose one housing from the **Pin Housing Selection Menu** table.
- 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.
- 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.
- 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              |      |
|                            | 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 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**

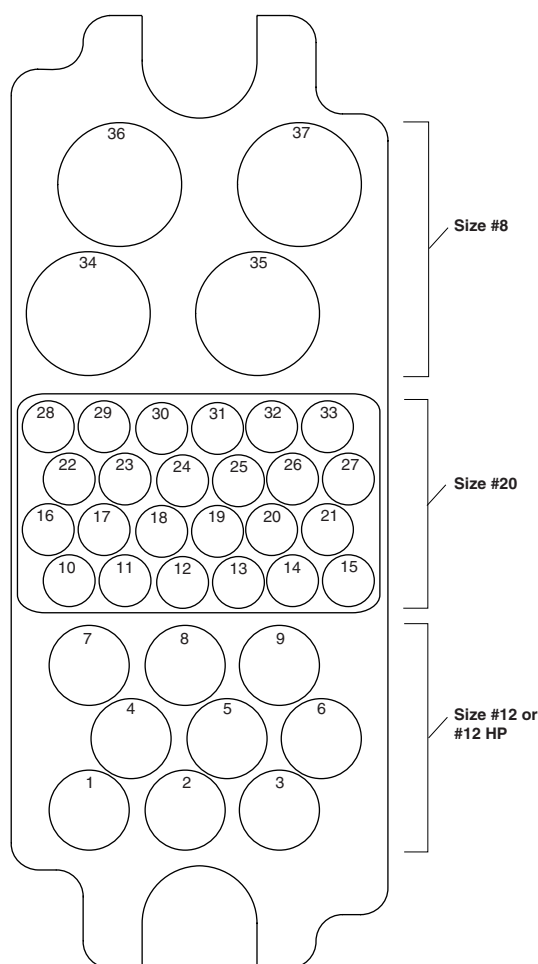
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## 75A Middle Drawer Connector Socket Side Layout Form

### 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.

**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.

### Socket Housing Selection Menu

| Part Number | Description                                   | Check One |
|-------------|-----------------------------------------------|-----------|
| 6648167-1   | Float Mount for Crimp Contacts                |           |
| 1648168-1   | PCB Mount for PCB Tail and Press-fit Contacts |           |

### Socket Contact Selection Menu

| Size         | Ref. | Part Number | Termination Style             | Qty. |
|--------------|------|-------------|-------------------------------|------|
| #8           | A =  | 6648317-1   | Crimp                         |      |
|              | B =  | 6648351-1   | Knurled Press-fit             |      |
|              | C =  | 6648400-1   | PCB Tail                      |      |
| #20          | D =  | 1648325-1   | Crimp                         |      |
|              | E =  | 6648294-1   | Compliant Press-fit (Flush)   |      |
|              | 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 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       |      |

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## 125A Middle Drawer Connector Pin Side Layout Form

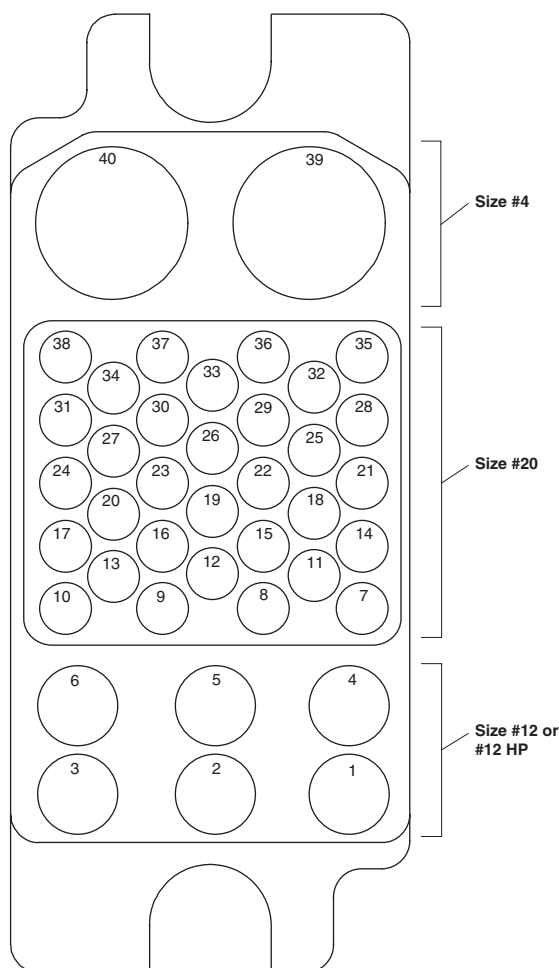
### Pin Assembly

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**

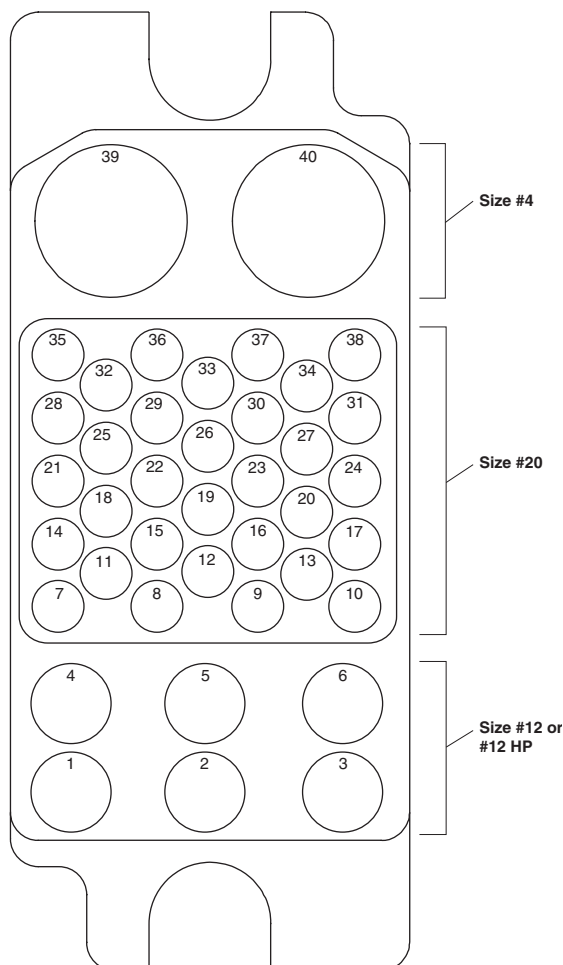
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## 125A Middle Drawer Connector Socket Side Layout Form

### 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.

**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.

### Socket Housing Selection Menu

| Part Number | Description                                   | Check One |
|-------------|-----------------------------------------------|-----------|
| 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       |      |

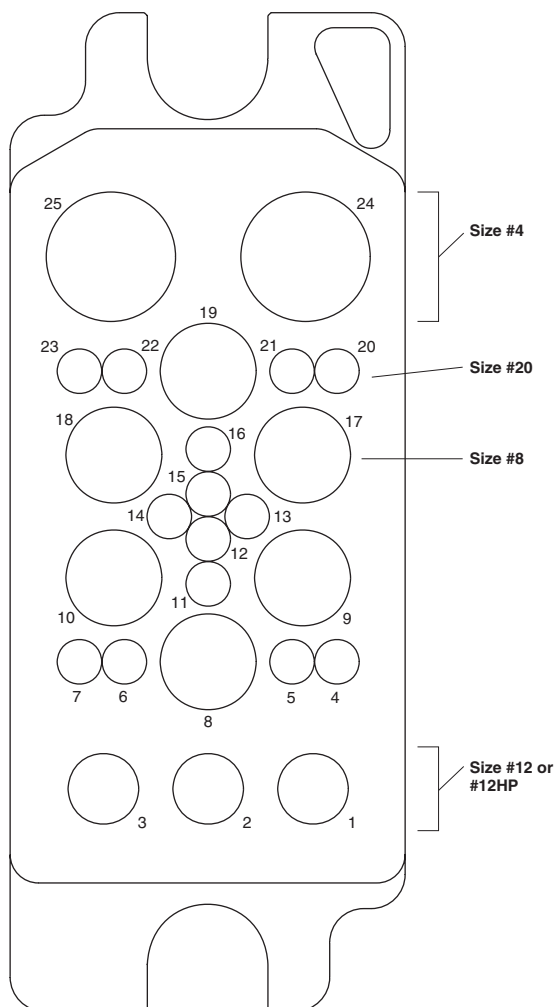
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## 200A Middle Drawer Connector Pin Side Layout Form

### 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.

**Pin Connector (Rear Face)**  
Pin Contact Insertion Side  
Pin 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 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       |      |

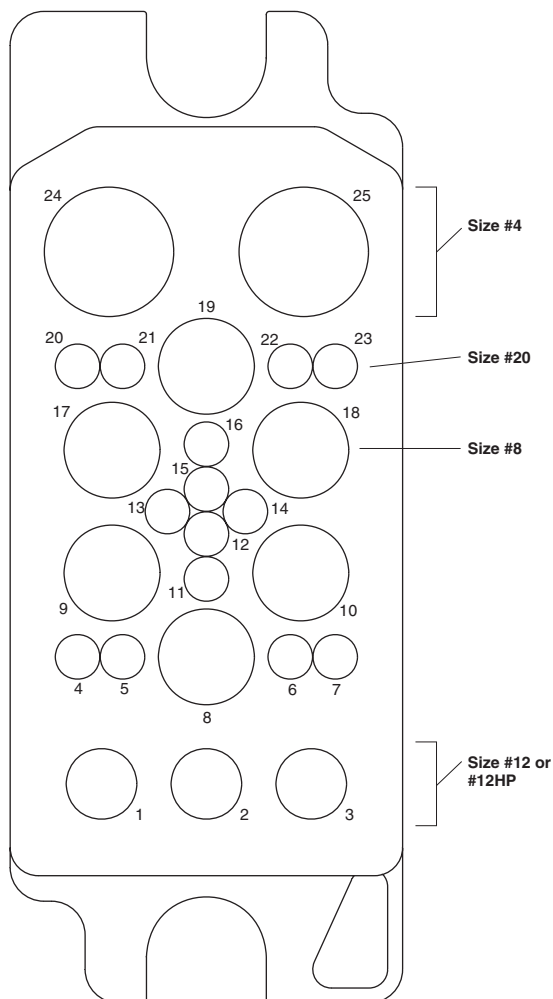
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## 200A Middle Drawer Connector Socket Side Layout Form

### 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.

**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.

### Socket Housing Part Number

1648135-1

### Socket Contact Selection Menu

| Size         | Ref. | Part Number | Termination Style & Pin Length | Qty. |
|--------------|------|-------------|--------------------------------|------|
| #4           | A =  | 6648434-1   | Crimp                          |      |
|              | B =  | 6648435-1   | 1/4-20 External Thread         |      |
| #8           | C =  | 6648317-1   | Crimp                          |      |
|              | D =  | 6648400-1   | PCB Tail                       |      |
| #20          | E =  | 1648325-1   | Crimp                          |      |
|              | F =  | 1648382-1   | PCB Tail                       |      |
| #12          | G =  | 6648318-1   | Crimp                          |      |
|              | H =  | 6648374-1   | PCB Tail                       |      |
| #12 Hot Plug | 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       |      |

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## Square Drawer Connector Pin Side Layout Form

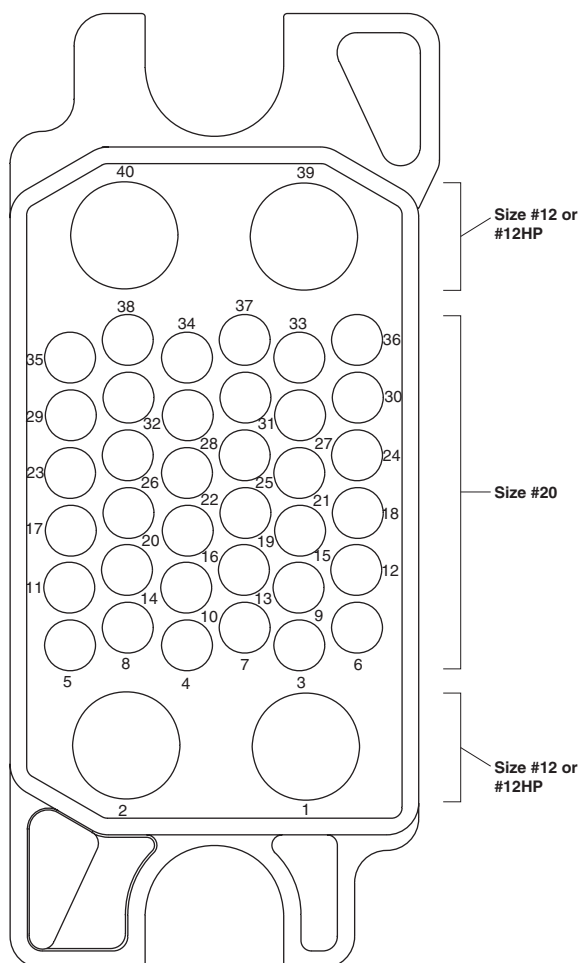
### Pin Assembly

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**

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## Square Drawer Connector Socket Side Layout Form

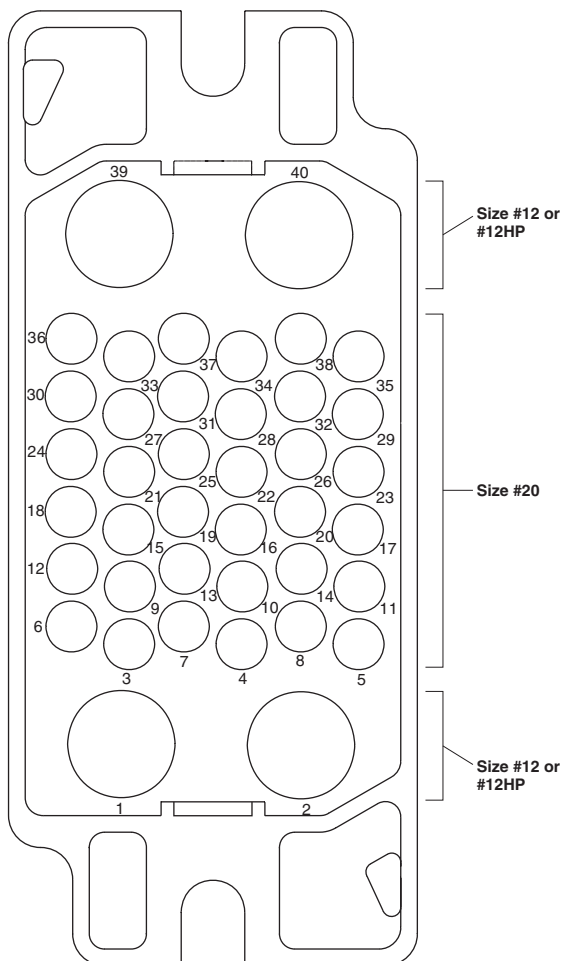
### Socket Assembly

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            |      |
|              | F =  | 6648374-1   | PCB Tail                       |      |
| #12 Hot Plug | 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**

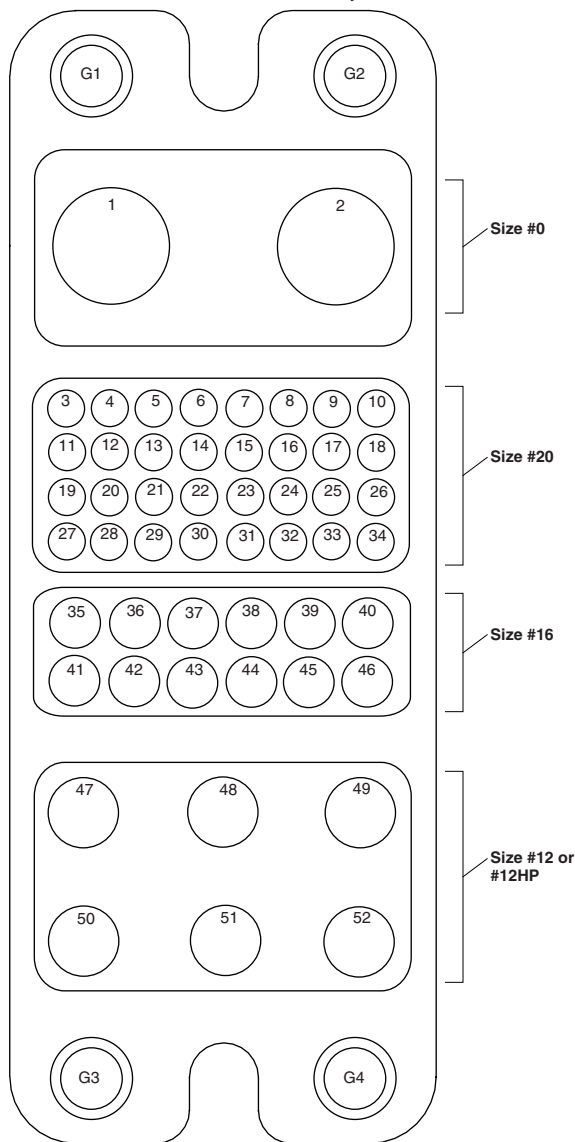
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## Top Drawer Connector Pin Side Layout Form

### Pin Assembly

- Choose one housing from the **Pin Housing Selection Menu** table. Place an X in the appropriate guide pin circles, if guide pins are required.
- 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.
- 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.
- 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**

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Catalog 6-1773444-7  
Revised 10-07

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752  
Canada: 1-905-470-4425  
Mexico: 01-800-733-8926  
C. America: 52-55-1106-0803

South America: 55-11-2103-6000  
Hong Kong: 852-2735-1628  
Japan: 81-44-844-8013  
UK: +44-(0) 800-267-666

### 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

| Part Number | Description                           | Check One |
|-------------|---------------------------------------|-----------|
| 1648183-1   | 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                  |      |
| #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

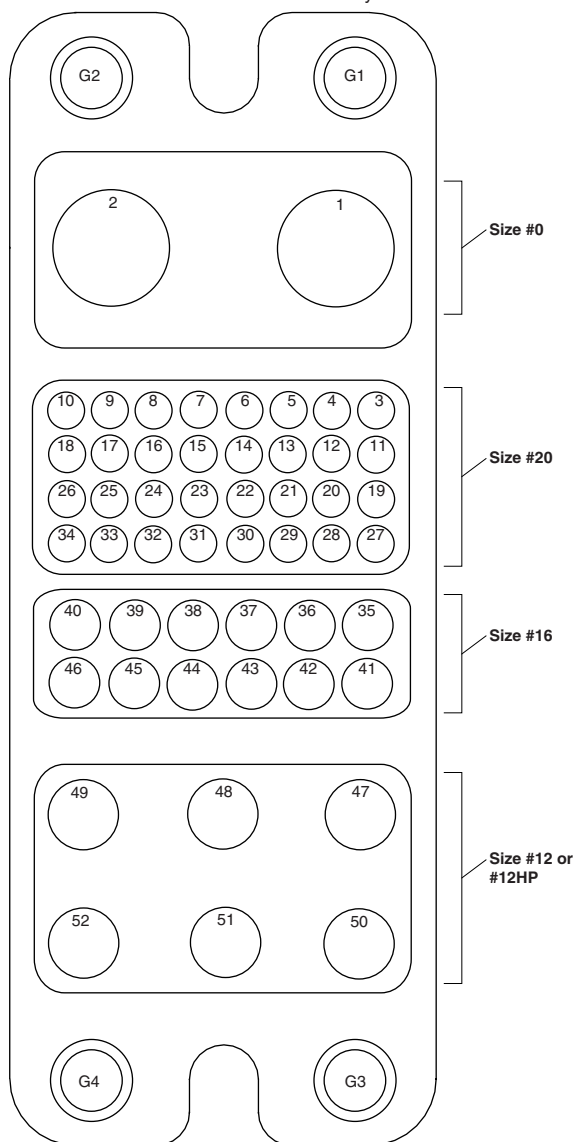
| Part Number | Description            | Qty. |
|-------------|------------------------|------|
| 1650399-1   | Screw, No 10-32 UNC 2A |      |
| 1650401-1   | Screw, M5 x 0.8        |      |

## 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

| Part Number | Description                           | Check One |
|-------------|---------------------------------------|-----------|
| 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        |      |

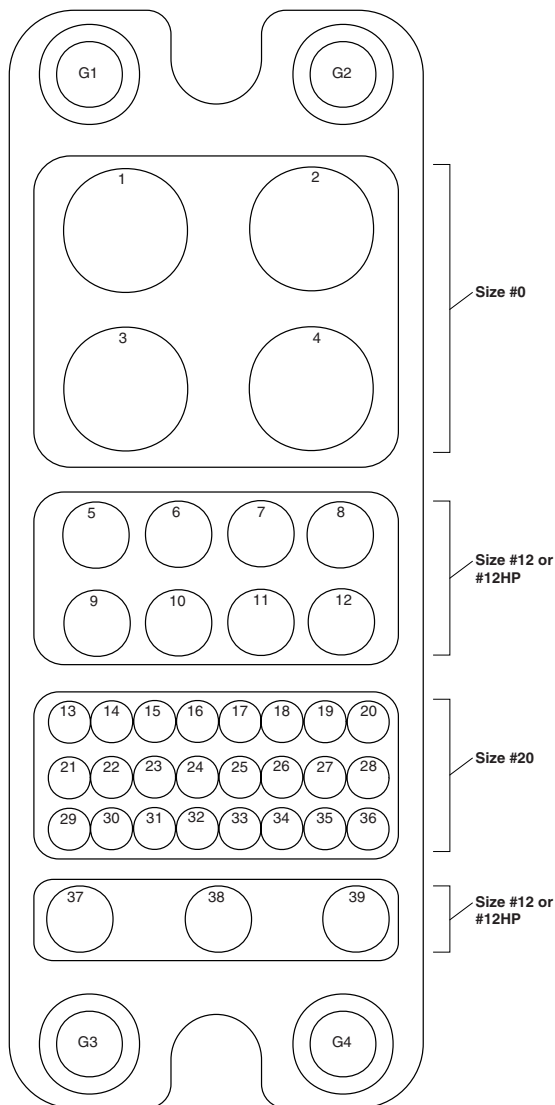
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## Double Drawer Connector Pin Side Layout Form

### Pin Assembly

- Choose one housing from the **Pin Housing Selection Menu** table. Place an X in the appropriate guide pin circles, if guide pins are required.
- 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.
- 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.
- 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**

### 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

| Part Number | Description                           | Check One |
|-------------|---------------------------------------|-----------|
| 1648552-1   | 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        |      |

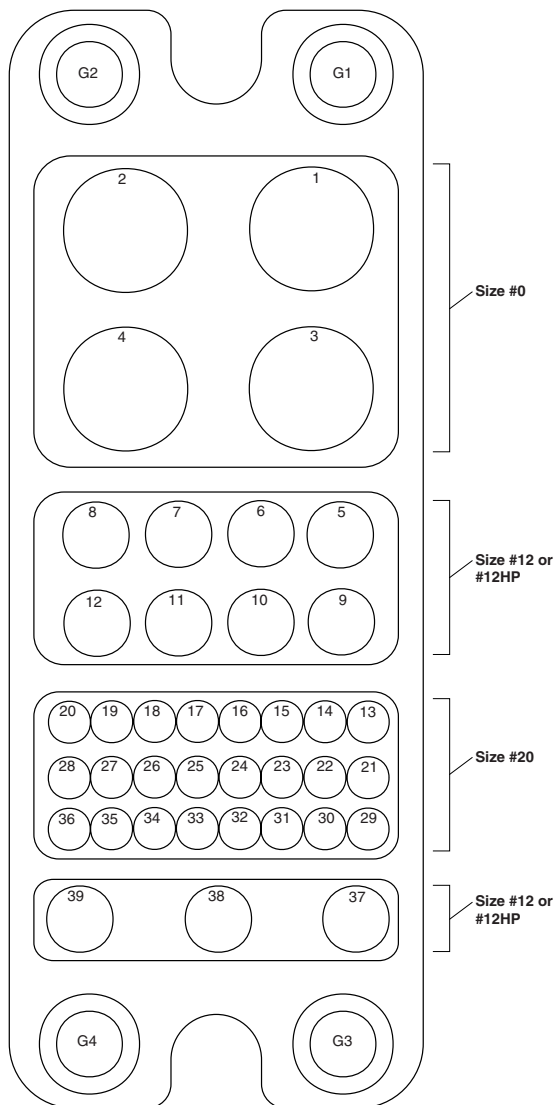
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## Double Drawer Connector Socket Side Layout Form

### 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 #8, write "R" in circle #8.
- 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.

### Socket Housing Selection Menu

| Part Number | Description                           | Check One |
|-------------|---------------------------------------|-----------|
| 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 |      |
|              | L =  | 1648325-1   | Crimp                               |      |
| #20          | M =  | 6648301-1   | Compliant Press-fit                 |      |
|              | N =  | 1648382-1   | PCB Tail                            |      |
|              | P =  | 6648318-1   | Crimp                               |      |
| #12          | Q =  | 6648304-1   | Compliant Press-fit                 |      |
|              | R =  | 6648374-1   | PCB Tail                            |      |
|              | S =  | 1648384-1   | Crimp, Hot Plug                     |      |
| #12 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        |      |

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## DualPower Drawer Connector Pin Side Layout Form

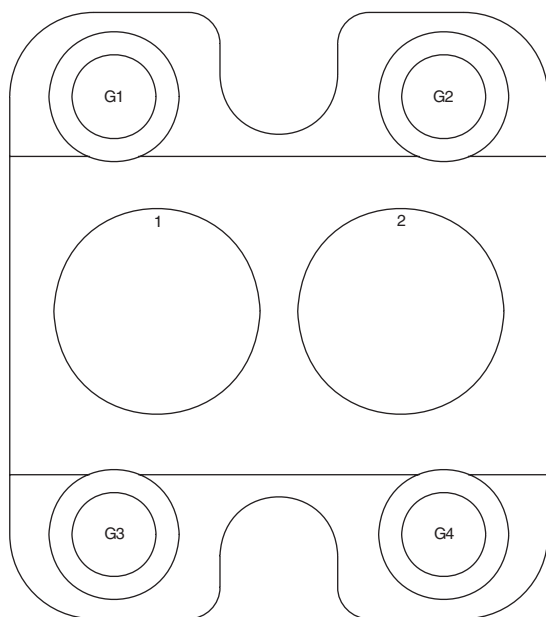
### Pin Assembly

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

## DualPower Drawer Connector Socket Side Layout Form

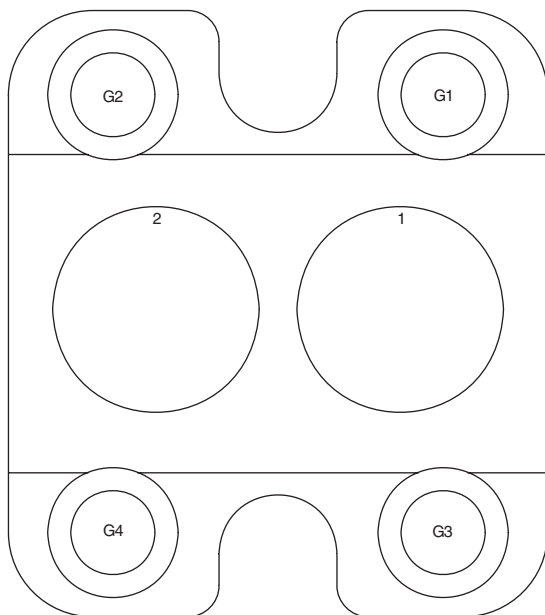
### Socket Assembly

- 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 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.
- 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        |      |

## QuadPower Drawer Connector Pin Side Layout Form

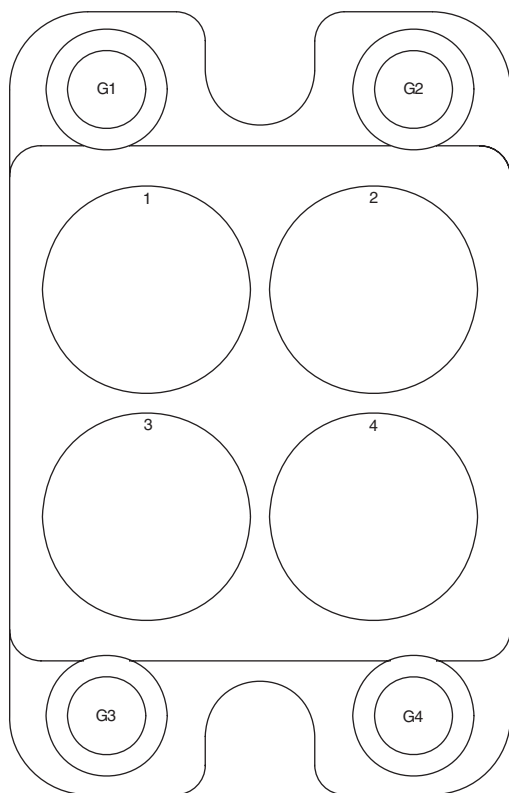
### Pin Assembly

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        |      |

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## QuadPower Drawer Connector Socket Side Layout Form

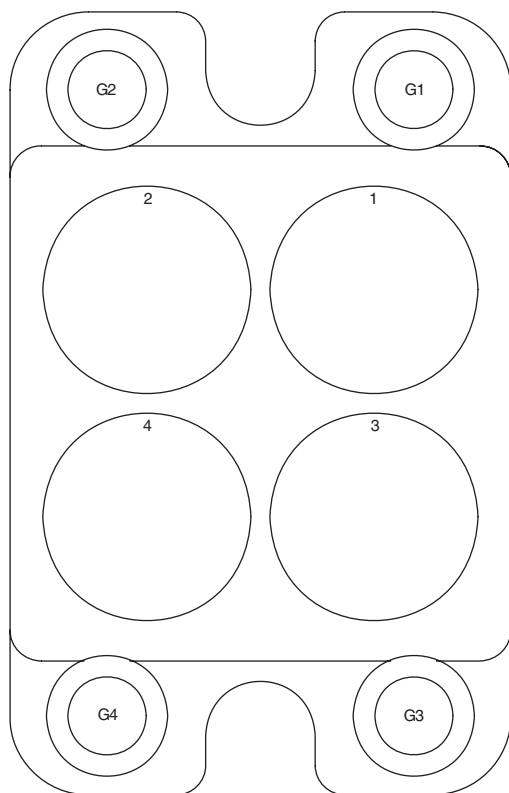
### Socket Assembly

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                |           |
|                               | 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        |      |

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

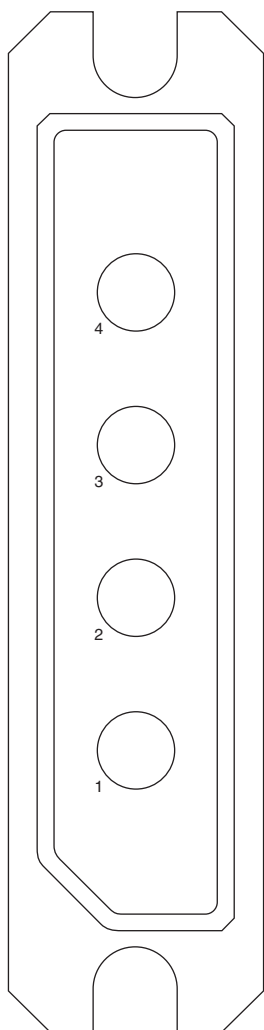
### Pin Assembly

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. |
| #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        |      |

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

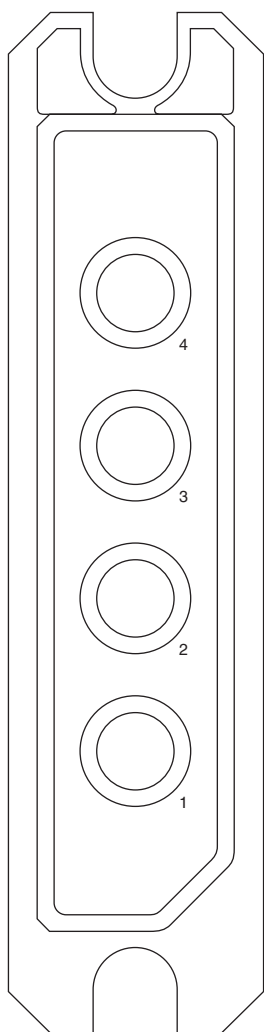
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## In-Line QuadPower Drawer Connector Socket Side Layout Form

### 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.

**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

1651404-1

### 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        |      |

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

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## W5 Power Drawer Connector Pin Side Layout Form

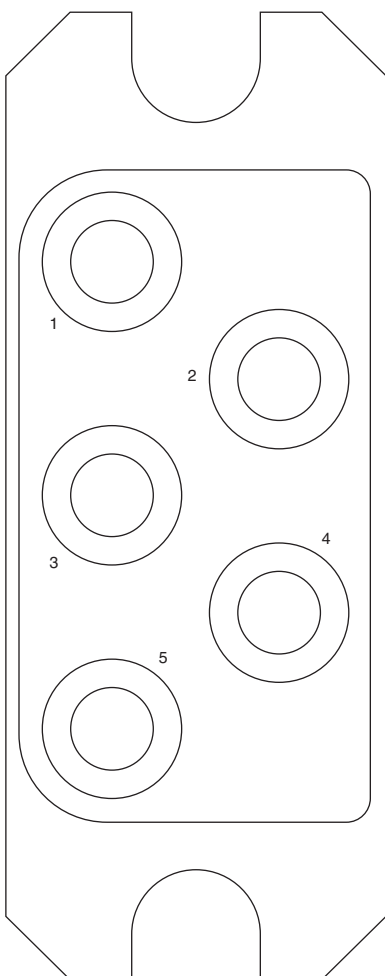
### Pin Assembly

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. |
| #4                         | 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**

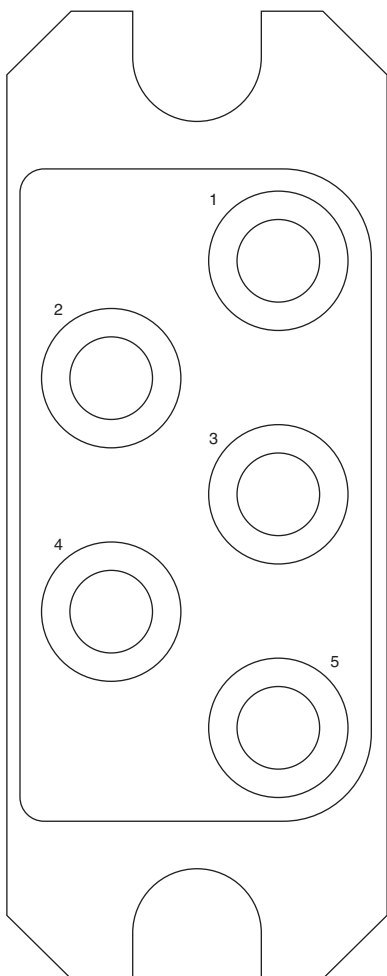
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## W5 Power Drawer Connector Socket Side Layout Form

### 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.

**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.

### 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       |      |

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## HV8P Drawer Connector Pin Side Layout Form

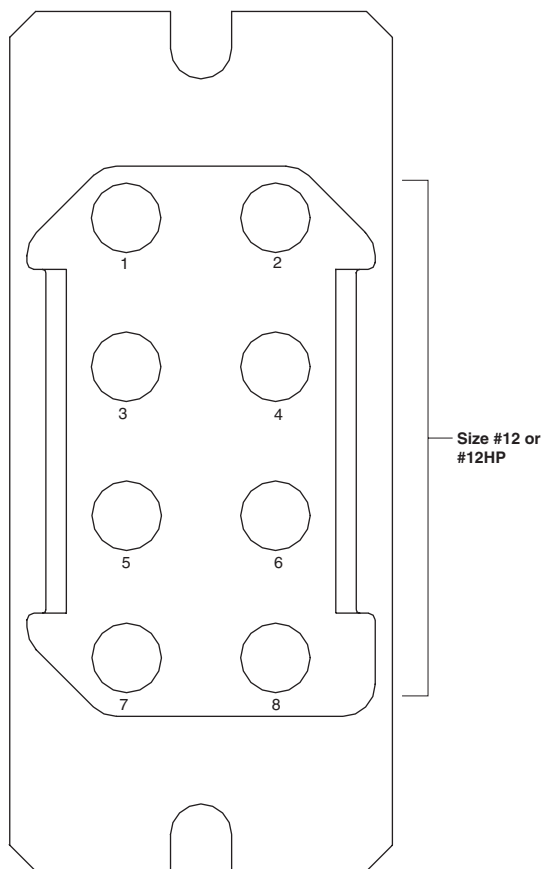
### Pin Assembly

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**

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## HV8P Drawer Connector Socket Side Layout Form

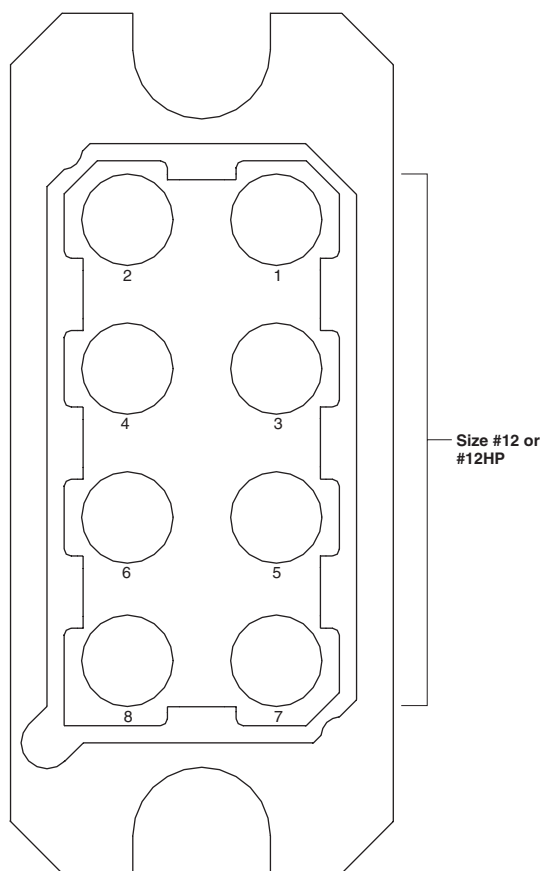
### Socket Assembly

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       |      |

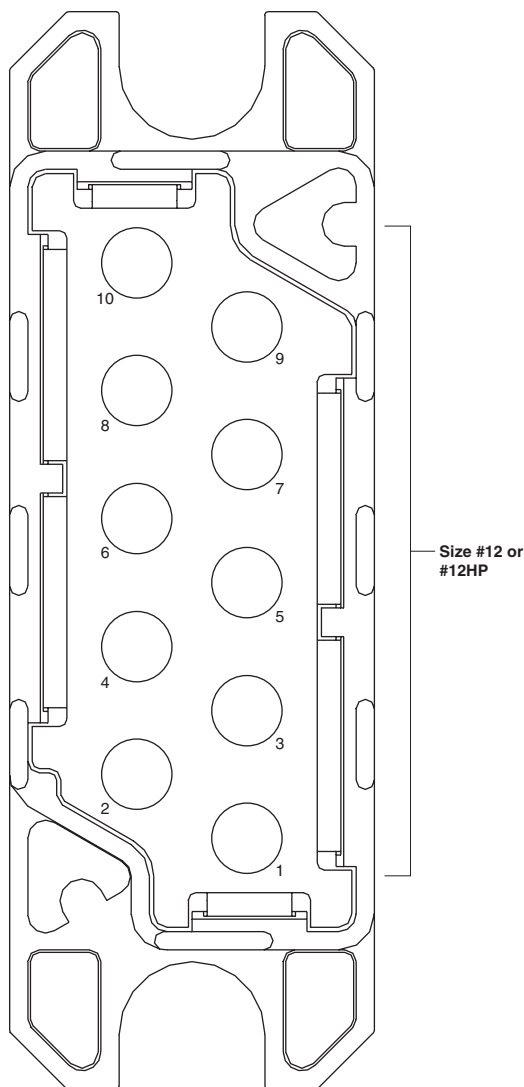
**Top Assembly Part Number**  
Assigned by Tyco Electronics

## 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.

**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 |
|-------------------------|
| 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**

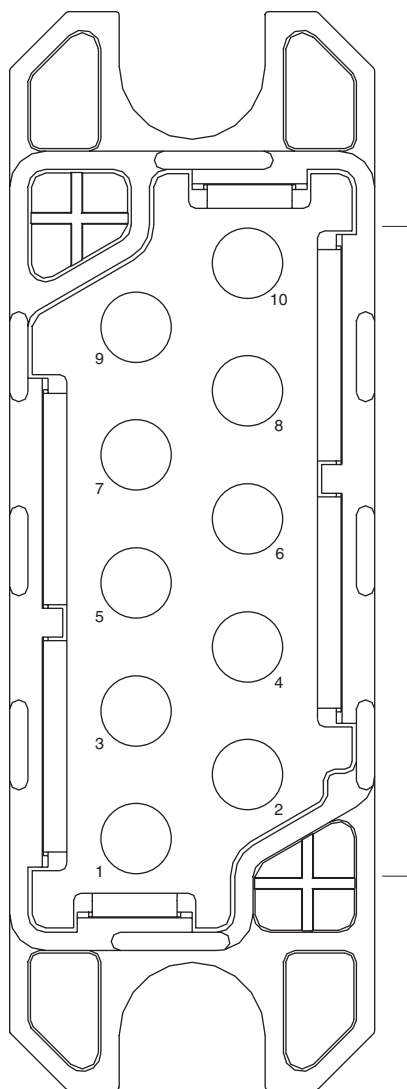
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## P10S0 Drawer Connector Socket Side Layout Form

### 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.

**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.

### 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       |      |

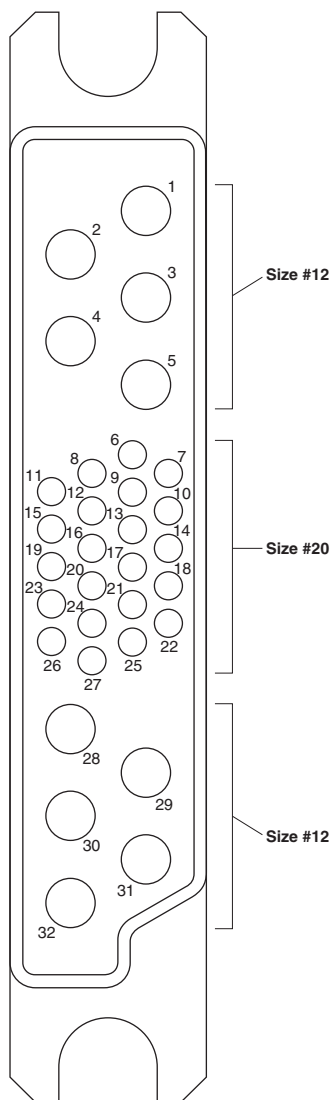
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## P10S22 Drawer Connector Pin Side Layout Form

### 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

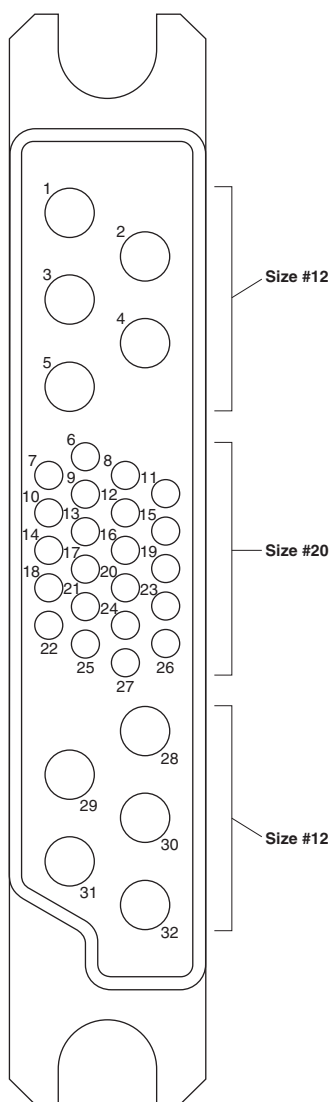
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## P10S22 Drawer Connector Socket Side Layout Form

### 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. |
|--------------|------|-------------|--------------------------------|------|
| #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            |      |
|              | F =  | 6648374-1   | PCB Tail                       |      |
| #12 Hot Plug | 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

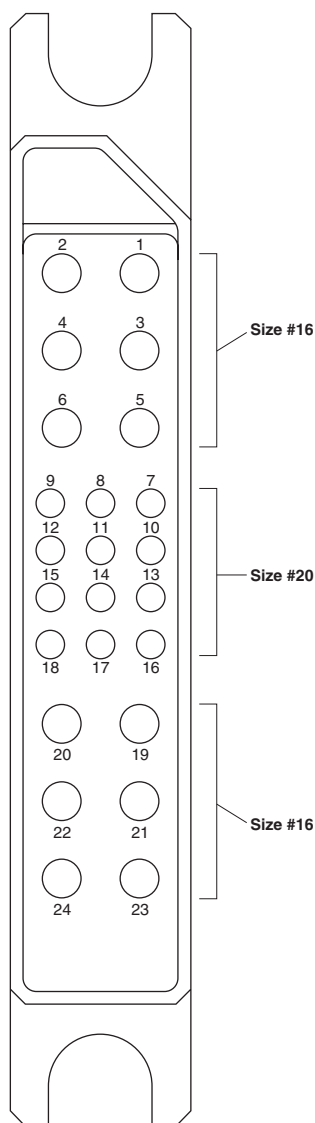
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## P12S12 Drawer Connector Pin Side Layout Form

### 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**

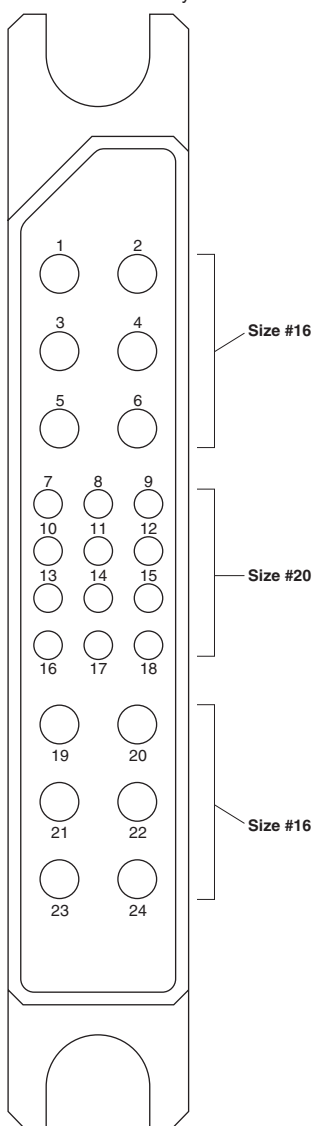
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## P12S12 Drawer Connector Socket Side Layout Form

### 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**

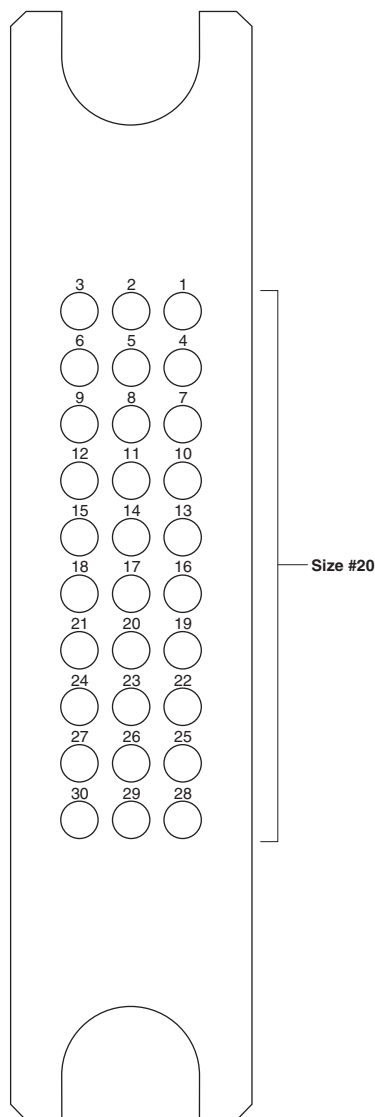
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## POS30 Drawer Connector Pin Side Layout Form

### 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



**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 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       |      |

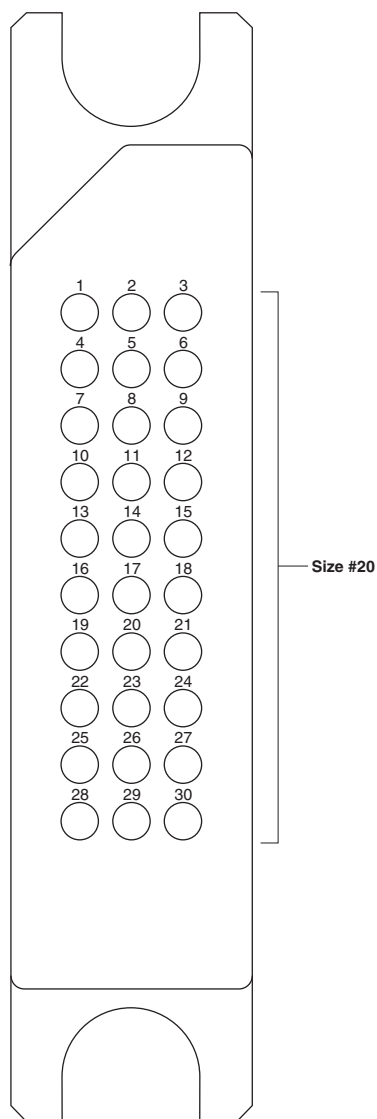
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## POS30 Drawer Connector Socket Side Layout Form

### 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**

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Harrisburg, PA

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