

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





MULTI-BEAM XL Custom Connector Worksheet

| PCB Mount Compared to the c | Cable Mount XYZ Floating | | Plugs XYZ Float | ting (|
|--|--|-------------------------|--|--|
| Receptacle (Vertical Shown) Electrically Hot | Slide-to-Lock | | Squeeze- Release | to- |
| To create a unique configuration for MULTI-BEAM XL Connector | ors simply comp | lete this worksheet ar | nd forward it to your Ty | yco Electronics sales engineer. |
| 1. Application Board-to-Board | | | Cable-to-Boa | rd |
| 2. Gender | | | Receptacle (F | |
| | d Mate specif t Angle | y Floating or Slid [| e-to-Lock recepta Vertical | acle Latching |
| 4. Termination (Cable Only) Power 8 AWG Signal 22 AWG | | 10 AWG 24 AWG | ☐ 12 AWG ☐ 26 AWG | |
| Sold | ler tail .135″ [ler tail .165″ [| | Press-Fit .120 Press-Fit .135 Press-Fit .165 | " [3.43mm] |
| 6. Mounting to PCB | inting holes (| - | | |
| Enter the p | osition(s) to | • | standard length F re-mate contact (| Power Contacts) Receptacles only) |
| | .200" [5.08m .250" [6.35m .300" [7.62m | m] (HDP) m] (P) | | |
| Enter the P | ositions with | | | e. 16, 24, 32) eak-First, Plugs only) |
| Section C: (Power Contacts) Enter # of Enter the p | Power Conta | cts (Loaded with | standard length F | Power Contacts) Receptacles only) |
| Contact Centerline Spacings: | .200″ [5.08m .250″ [6.35m .300″ [7.62m | m] (HDP) m] (P) | | |
| 8. Additional Requirements | | | | |
| 9. Customer Information | | | | |
| Name:Comp | | | | |
| Phone:Fax: _ (Submit to your local Tyco Electronics Sales Engineer) | | | EAM XL, TE LOGO and TY | /CO ELECTRONICS are trademarks of |

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MINIPAK Custom Connector Worksheet

MINIPAK Connector

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

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

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

| ENTER CUSTOMER INFORMATION | | | | | | | |
|--|--------------------------|--|--|--|--|--|--|
| Company | Location | | | | | | |
| Contact Name | Title | | | | | | |
| Telephone | Fax | | | | | | |
| Email Address | | | | | | | |
| l am: ☐ End user ☐ Contract manufacturer (end user: | | | | | | | |
| Signature | Today's Date | | | | | | |
| | Annual Quantity Required | | | | | | |

| 1. | AC INPUT ☐ No AC input required | ☐ 125 VAC space | cing | 2 50 | 0 VAC spacing | | | |
|----|---|-----------------|--------------|-------------|---------------|----------|--|--|
| 2. | SIGNAL CONTACTS | | | | | | | |
| | ☐ No signal contacts required | 6 contacts | ☐ 24 contact | ts (| → 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) | Right Angle Blade (choose one) |
|------|---|--|
| | ☐ Short solder tail (.062" thick boards) | ☐ Short solder tail (for .062" thick boards) |
| | ☐ Long solder tail (.093/.125" thick boards) | ☐ Long solder tail (.093/.125" thick boards) |
| | ☐ Compliant press-fit tails (.093" min. thick board recommended) | |
| 5. | OTHER REQUIREMENTS | NOTES: |
| | ☐ 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 | |
| | | |
| | | |
| | | |
| | | |
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| | co Electronics Corporation. | |

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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
- 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: □ End user □ Contract manufacturer (end us | ser:) | | | | | | | |
| Signature | Today's Date | | | | | | | |
| | Annual Quantity Required | | | | | | | |

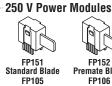
Write the "FP" numbers to indicate the layout of one half of the connector assembly, matching the left to right order with the mating face view of the connector (right angle assembly tails facing downwards)

| FP | Solder Tail Options |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| | | | | | | | | | | | | | | □ .115" (2.9 mm); .062" thick boards □ .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 | Solder Tail Options |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| | | | | | | | | | | | | | | ☐ .115" (2.9 mm); .062" thick boards ☐ .177" (4.5 mm); .093/.125" boards |

Right Angle Mount





FP206



FP104 **Hot Plug Socket** FP107 FP204 Float, Postmate Hot Plug, Press-fit FP207 Hot Plug, Press-fit Hot Plug, Press-fit Hot Plug, Press-fit



FP512 Spacer, 250 V





FP303 24-Pin Socket FP403 24-Pin, Press-fit



600 V Power Modules



FP205

FP155 Standard Blade Float, Standard FP221



FP122

FP222

FP157 Premate Blade Postmate Blade Float, Premate Float, Postmate FP223 Hot Plug, Press-fit Hot Plug, Press-fit Hot Plug, Press-fit



Hot Plug Socket FP220 Hot Plug Press-fit

Mounts

24-Pin. Press-fit



FP500 FP501 Right Flange Mount

Signal Modules





Right Angle **Guide Sockets** FP506 Passive FP516 Active

FP507 Right Angle Passive **Guide Pin**

Straight Mount

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.

250 V Power Modules



FP150 Socket, Solder FP250 Socket, Press-fit FP100 Hot Plug, Solder Hot Plug, Press-fit



FP161 Standard Blade FP101 Float, Standard FP201



Premate Blade FP102 Float. Premate FP202 Hot Plug



Postmate Blade FP103 Float, Postmate FP203 Hot Plug

Spacer, 600 V

Spacer, 250 V

FP300 24-Pin FP318 24-Pin Socket FP400 24-Pin. Press-fit FP301

24-Pin Skt. Press-fit 24-Pin Skt, 3A Rated FP401 24-Pin Skt, 3A, Press-fit



FP412

FP313 6-Pin Socket 3A rated FP413 Press-fit 6-Pin Skt 3A, Press-fit

600 V Power Modules



Socket, Solder FP254 Socket, Press-fit FP116 Hot Plug, Solder FP216 Hot Plug, Press-fit



Standard Blade FP117 Float, Standard FP217 Hot Plug Press-fit



FP167 Premate Blade Postmate Blade FP119 FP118 Float. Premate Finat, Postmate FP218 FP219 Hot Plug, Press-fit Hot Plug, Press-fit



FP513 Spacer, 600 V

Mounts Guides



FP500 FP501 Left Flange ight Flange Mount Mount



Straight Passive



FP517 Active, 4-40

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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 CUSTOMI | ER INFORMATION |
|---|--------------------------|
| Company | Location |
| Contact Name | Title |
| Telephone | Fax |
| Email Address | |
| l am: □ End user □ Contract manufacturer (end us | ser:) |
| 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 |

| Till Collictor rical race c | avity identification |
|--|--|
| | |
| 2 3 | 1648110-1 - #12 or #12HP 1648111-1 - #16 only 1648112-1 - #16 only |
| 6 7 8 9 10 11 12 13 14 15 16 17 | ─ #20 on all housings |
| 20 19 21 | 1648110-1 - #12 or #12HP 1648111-1 - #16 only 1648112-1 - #12 or #12HP |
| | |

| Top Asse | embly | / Part | Number |
|-----------------|-------|--------|-----------|
| Assigned | by Ty | /co El | ectronics |

| Pin Housing Selection Menu | | Check |
|----------------------------|--|-------|
| Part Number | Description | One |
| 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 | |

| Size | Re | f. | Part Number | Termination Style & Pin Length | Qty. |
|---------|----|----|-------------|--------------------------------|------|
| O.L.O | A | = | 1650155-1 | Crimp, standard | Q.y. |
| | В | = | 1650161-1 | Crimp, premate | |
| #20 | С | = | 1650162-2 | Crimp, postmate | |
| #20 | D | = | 1650283-1 | PCB tail, standard | |
| | Е | = | 1650065-1 | PCB tail, premate | |
| | F | = | 1650226-1 | PCB tail, postmate | |
| | G | = | 1766194-1 | Crimp, standard | |
| | Η | = | 1766198-1 | Crimp, premate | |
| #16 | J | = | 1766199-1 | Crimp, postmate | |
| πισ | K | = | 1766222-1 | PCB tail, standard | |
| | L | = | 1766223-1 | PCB tail, premate | |
| | M | = | 1766818-1 | PCB tail, postmate | |
| | N | = | 1766193-1 | Crimp, standard | |
| | Р | = | 1766195-1 | Crimp, premate | |
| #12 | Q | = | 1766196-1 | Crimp, postmate | |
| π12 | R | = | 1766245-1 | PCB tail, standard | |
| | S | = | 1766250-1 | PCB tail, premate | |
| | T | = | 1766249-1 | PCB tail, postmate | |
| | U | = | 1650153-2 | Crimp, standard, Hot Plug | |
| #12 Hot | V | = | 1650156-2 | Crimp, premate, Hot Plug | |
| Plug | W | = | 1650060-2 | PCB tail, standard, Hot Plug | |
| | Χ | = | 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 | |



Mini Drawer Connector Socket Side Layout Form

Socket Assembly

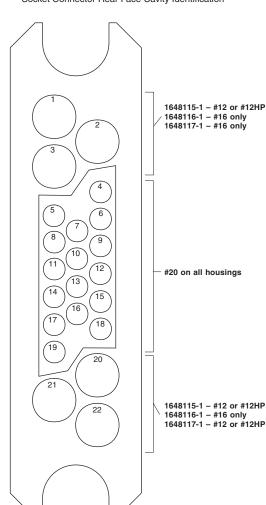
- 1. Choose one housing from the Socket Housing Selection Menu table.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. PCB tail contacts are installed by Tyco 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.
- 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: 🗅 End user 🗅 Contract manufacturer (end us | ser:) | | | |
| 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 |
|-------------------------------|---|-------|
| Part Number | Description | One |
| 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 C | onta | ct | Selection Me | nu | |
|-----------------|------|----|--------------|-------------------------------|------|
| Size | Re | f. | Part Number | Termination Style | Qty. |
| | Α | = | 1648325-1 | Crimp | |
| #20 | В | = | 6648301-1 | Compliant Press-fit | |
| | С | = | 1648382-1 | PCB Tail | |
| | D | = | 6648319-1 | Crimp | |
| #16 | Ε | = | 6648306-1 | Compliant Press-fit | |
| | F | = | 6648383-1 | PCB Tail | |
| | G | = | 6648318-1 | Crimp | |
| #12 | Н | = | 6648304-1 | Compliant Press-fit | |
| | J | = | 6648374-1 | PCB Tail | |
| #40 H-1 | K | = | 1648384-1 | Crimp, Hot Plug | |
| #12 Hot Plug | L | = | 6648305-1 | Compliant Press-fit, Hot Plug | |
| riuy | 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



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: 🗅 End user 🗅 Contract manufacturer (end us | ser:) | | | |
| 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 Identificatio |

| Pin Connector Rear Face Cavit | ty Identification |
|---|--|
| | 1648203-1 - #12 or #12HP 1648204-1 - #16 only 1648205-1 - #16 only |
| | |
| 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 | — #20 on all housings |
| 26 27 29 | 1648203-1 - #12 or #12HP 1648204-1 - #16 only 1648205-1 - #12 or #12HP |
| | |

Top Assembly Part Number Assigned by Tyco Electronics

| Pin Housing S | election Menu | Check |
|---------------|--|-------|
| Part Number | Description | One |
| 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 Conta | act Sel | ection Menu | | |
|-----------|---------|-------------|--------------------------------|------|
| Size | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| | A = | 1650155-1 | Crimp, standard | |
| | B = | 1650161-1 | Crimp, premate | |
| #20 | C = | 1650162-2 | Crimp, postmate | |
| πΔΟ | D = | 1650283-1 | PCB tail, standard | |
| | E = | 1650065-1 | PCB tail, premate | |
| | F = | 1650226-1 | PCB tail, postmate | |
| | G = | 1766194-1 | Crimp, standard | |
| | H = | 1766198-1 | Crimp, premate | |
| #16 | J = | 1766199-1 | Crimp, postmate | |
| π10 | K = | 1766222-1 | PCB tail, standard | |
| | L = | 1766223-1 | PCB tail, premate | |
| | M = | 1766818-1 | PCB tail, postmate | |
| | N = | 1766193-1 | Crimp, standard | |
| | P = | 1766195-1 | Crimp, premate | |
| #12 | Q = | 1766196-1 | Crimp, postmate | |
| π12 | R = | 1766245-1 | PCB tail, standard | |
| | S = | 1766250-1 | PCB tail, premate | |
| | T = | 1766249-1 | PCB tail, postmate | |
| | U = | 1650153-2 | Crimp, standard, Hot Plug | |
| #12 Hot | V = | 1650156-2 | Crimp, premate, Hot Plug | |
| 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 | | |



Lower Drawer Connector Socket Side Layout Form

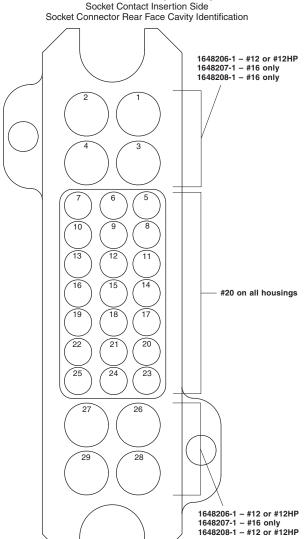
Socket Assembly

- 1. Choose one housing from the Socket Housing Selection Menu table.
- 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.
- Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMI | ER INFORMATION |
|---|--------------------------|
| Company | Location |
| Contact Name | Title |
| Telephone | Fax |
| Email Address | |
| l am: □ End user □ Contract manufacturer (end us | ser:) |
| Signature | Today's Date |
| | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

Socket Connector (Rear Face)



| Socket Housing Selection Menu | | |
|-------------------------------|---|-----|
| Part Number | Description | One |
| 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 C | onta | ıct | Selection Me | nu | |
|-----------------|------|-----|--------------|-------------------------------|------|
| Size | Re | f. | Part Number | Termination Style | Qty. |
| | Α | = | 1648325-1 | Crimp | |
| #20 | В | = | 6648301-1 | Compliant Press-fit | |
| | С | = | 1648382-1 | PCB Tail | |
| | D | = | 6648319-1 | Crimp | |
| #16 | Е | = | 6648306-1 | Compliant Press-fit | |
| | F | = | 6648383-1 | PCB Tail | |
| | G | = | 6648318-1 | Crimp | |
| #12 | Н | = | 6648304-1 | Compliant Press-fit | |
| | J | = | 6648374-1 | PCB Tail | |
| #40 H-1 | K | = | 1648384-1 | Crimp, Hot Plug | |
| #12 Hot Plug | L | = | 6648305-1 | Compliant Press-fit, Hot Plug | |
| riuy | 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



75A Middle Drawer Connector Pin Side Layout Form

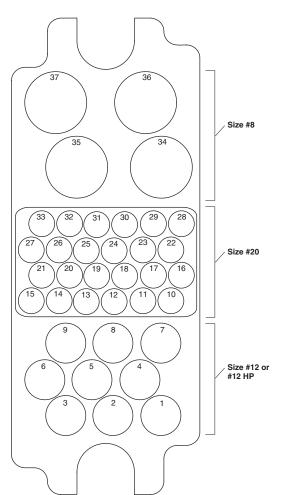
Pin Assembly

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

| ENTER CUSTOMER INFORMATION | | | | |
|---|--------------------------|--|--|--|
| Company | Location | | | |
| Contact Name | Title | | | |
| Telephone | Fax | | | |
| Email Address | | | | |
| l am: □ End user □ 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 S | election Menu | Check |
|---------------|---------------------------------------|-------|
| Part Number | Description | One |
| 1648162-1 | Float Mount for Crimp Contacts | |
| 1648163-1 | Flush PCB Mount for PCB Tail Contacts | |

| Pin Conta | act S | Sel | ection Menu | | |
|-----------|-------|-----|-------------|--------------------------------|------|
| Size | Re | f. | Part Number | Termination Style & Pin Length | Qty. |
| | Α | = | 1766192-1 | Crimp, standard | |
| #8 | В | = | 1766197-1 | Crimp, premate | |
| πο | С | = | 1766262-1 | PCB tail, standard | |
| | D | = | 1766263-1 | PCB tail, premate | |
| | Ε | = | 1650155-1 | Crimp, standard | |
| | F | = | 1650161-1 | Crimp, premate | |
| #20 | G | = | 1650162-2 | Crimp, postmate | |
| πΔυ | Н | = | 1650283-1 | PCB tail, standard | |
| | J | = | 1650065-1 | PCB tail, premate | |
| | K | = | 1650226-1 | PCB tail, postmate | |
| | L | = | 1766193-1 | Crimp, standard | |
| | M | = | 1766195-1 | Crimp, premate | |
| #12 | N | = | 1766196-1 | Crimp, postmate | |
| π12 | Р | = | 1766245-1 | PCB tail, standard | |
| | Q | = | 1766250-1 | PCB tail, premate | |
| | R | = | 1766249-1 | PCB tail, postmate | |
| | S | = | 1650153-2 | Crimp, standard, Hot Plug | |
| #12 Hot | T | = | 1650156-2 | Crimp, premate, Hot Plug | |
| 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.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 PCB tail contact to be installed in contact position #8, write "J" in circle #8.
- 4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| ENTER CUSTOMI | ER INFORMATION |
|---|--------------------------|
| Company | Location |
| Contact Name | Title |
| Telephone | Fax |
| Email Address | |
| l am: □ End user □ Contract manufacturer (end us | ser:) |
| 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

| Cooker Connector Floar Face Cavity facili | imodion |
|---|-----------------------|
| 36 37 37 35 | Size #8 |
| 28 \(\) 29 \(\) 30 \(\) 31 \(\) 32 \(\) 33 \(\) | |
| 22 23 24 25 26 27 16 17 18 19 20 21 10 11 12 13 14 15 | Size #20 |
| 7 8 9 | |
| 4 5 6 | Size #12 or #12 HP |
| | |
| | |

| Socket Housing Selection Menu | | | | |
|-------------------------------|---|--|--|--|
| Part Number | Part Number Description | | | |
| 6648167-1 | Float Mount for Crimp Contacts | | | |
| 1648168-1 | PCB Mount for PCB Tail and Press-fit Contacts | | | |

| Socket C | onta | ıct | Selection Me | nu | |
|----------|------|-----|--------------|-------------------------------|------|
| Size | Re | f. | Part Number | Termination Style | Qty. |
| | Α | = | 6648317-1 | Crimp | |
| #8 | В | = | 6648351-1 | Knurled Press-fit | |
| | С | = | 6648400-1 | PCB Tail | |
| | D | = | 1648325-1 | Crimp | |
| #20 | Е | = | 6648294-1 | Compliant Press-fit (Flush) | |
| | F | = | 1648382-1 | PCB Tail | |
| | G | = | 6648318-1 | Crimp | |
| #12 | Н | = | 6648304-1 | Compliant Press-fit | |
| | J | = | 6648374-1 | PCB Tail | |
| "40 !! ! | K | = | 1648384-1 | Crimp, Hot Plug | |
| #12 Hot | L | = | 6648305-1 | Compliant Press-fit, Hot Plug | |
| 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



125A Middle Drawer Connector Pin Side Layout Form

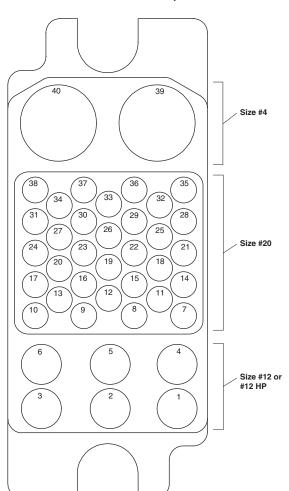
Pin Assembly

- 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 | | | | |
| l am: □ End user □ Contract manufacturer (end us | ser:) | | | |
| Signature | Today's Date | | | |
| | Annual Quantity Required | | | |

Submit to your local Tyco Electronics Sales Engineer.

| F | Pin Connector (Rear Face) |
|----------|---------------------------------------|
| | Pin Contact Insertion Side |
| Pin Conn | ector Rear Face Cavity Identification |



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

| Pin Conta | act Se | lection Menu | | |
|-----------|--------|--------------|--------------------------------|------|
| Size | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| | A = | 1766232-1 | Crimp, standard | |
| #4 | В = | 1766812-1 | 1/4-20 External Thread | |
| | C = | 1766283-1 | M5 Internal Thread | |
| | E = | 1650155-1 | Crimp, standard | |
| | F = | 1650161-1 | Crimp, premate | |
| #20 | G = | 1650162-2 | Crimp, postmate | |
| πΖυ | Н = | 1650283-1 | PCB tail, standard | |
| | J = | 1650065-1 | PCB tail, premate | |
| | K = | 1650226-1 | PCB tail, postmate | |
| | L = | 1766193-1 | Crimp, standard | |
| | M = | 1766195-1 | Crimp, premate | |
| #12 | N = | 1766196-1 | Crimp, postmate | |
| π12 | P = | 1766245-1 | PCB tail, standard | |
| | Q = | 1766250-1 | PCB tail, premate | |
| | R = | 1766249-1 | PCB tail, postmate | |
| | S = | 1650153-2 | Crimp, standard, Hot Plug | |
| #12 Hot | T = | 1650156-2 | Crimp, premate, Hot Plug | |
| 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



125A Middle Drawer Connector Socket Side Layout Form

Socket Assembly

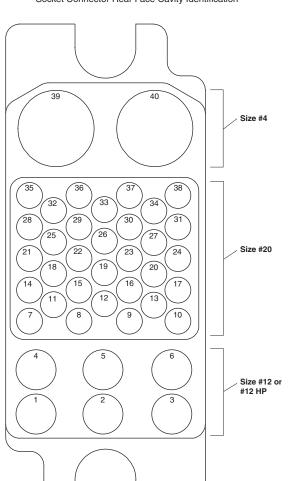
- 1. Choose one housing from the Socket Housing Selection Menu table.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed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

| ENTER CUSTOMER INFORMATION | | | | |
|---|--------------------------|--|--|--|
| Company | Location | | | |
| Contact Name | Title | | | |
| Telephone | Fax | | | |
| Email Address | | | | |
| I am: 🗅 End user 🗅 Contract manufacturer (end us | ser:) | | | |
| 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 | | | |
|-------------------------------|---|-----|--|
| Part Number | Description | One | |
| 1648156-1 | Float Mount for Crimp Contacts | | |
| 1648157-1 | PCB Mount for PCB Tail and Press-fit Contacts | | |

| Socket Contact Selection Menu | | | | | |
|-------------------------------|----|----|-------------|-------------------------------|------|
| Size | Re | f. | Part Number | Termination Style | Qty. |
| | Α | = | 6648434-1 | Crimp | |
| #4 | В | = | 6648435-1 | 1/4-20 External Thread | |
| | С | = | 6648335-1 | M5 Internal Thread | |
| | D | = | 1648325-1 | Crimp | |
| #20 | Ε | = | 6648301-1 | Compliant Press-fit | |
| | F | = | 1648382-1 | PCB Tail | |
| | G | = | 6648318-1 | Crimp | |
| #12 | Н | = | 6648304-1 | Compliant Press-fit | |
| | J | = | 6648374-1 | PCB Tail | |
| #40 H-1 | K | = | 1648384-1 | Crimp, Hot Plug | |
| #12 Hot Plug | L | = | 6648305-1 | Compliant Press-fit, Hot Plug | |
| riug | M | = | 1648387-1 | PCB Tail, Hot Plug | |

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

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

Top Assembly Part Number Assigned by Tyco Electronics



200A Middle Drawer Connector Pin Side Layout Form

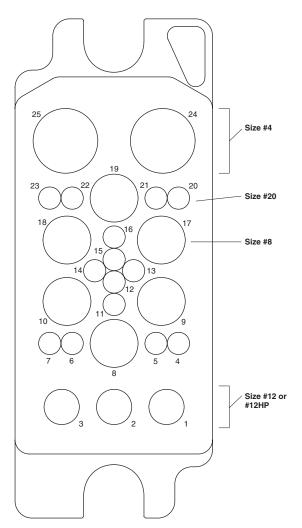
Pin Assembly

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

| ENTER CUSTOMI | ER INFORMATION |
|--|--------------------------|
| Company | Location |
| Contact Name | Title |
| Telephone | Fax |
| Email Address | |
| I am: □ End user □ Contract manufacturer (end us | ser:) |
| Signature | Today's Date |
| | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

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



Pin Housing Part Number 1648134-1

| Pin Conta | act S | Sel | ection Menu | | |
|-----------|-------|-----|-------------|--------------------------------|------|
| Size | Re | f. | Part Number | Termination Style & Pin Length | Qty. |
| #4 | Α | = | 1766232-1 | Crimp, standard | |
| #4 | В | = | 1766812-1 | 1/4-20 External Thread | |
| #8 | С | = | 1766192-1 | Crimp, standard | |
| πυ | D | = | 1766197-1 | Crimp, premate | |
| | Е | = | 1650155-1 | Crimp, standard | |
| | F | = | 1650161-1 | Crimp, premate | |
| #20 | G | = | 1650162-2 | Crimp, postmate | |
| πΖυ | Н | = | 1650283-1 | PCB tail, standard | |
| | J | = | 1650065-1 | PCB tail, premate | |
| | K | = | 1650226-1 | PCB tail, postmate | |
| | L | = | 1766193-1 | Crimp, standard | |
| | M | = | 1766195-1 | Crimp, premate | |
| #12 | N | = | 1766196-1 | Crimp, postmate | |
| π12 | Р | = | 1766245-1 | PCB tail, standard | |
| | Q | = | 1766250-1 | PCB tail, premate | |
| | R | = | 1766249-1 | PCB tail, postmate | |
| | S | = | 1650153-2 | Crimp, standard, Hot Plug | |
| #12 Hot | T | = | 1650156-2 | Crimp, premate, Hot Plug | |
| Plug | U | = | 1650060-2 | PCB tail, standard, Hot Plug | |
| | V | = | 1650074-3 | PCB tail, premate, Hot Plug | |

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

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

Top Assembly Part Number Assigned by Tyco Electronics



200A Middle Drawer Connector Socket Side Layout Form

Socket Assembly

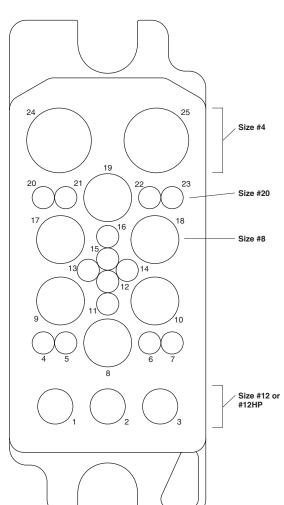
- 1. Enter company and contact information (at right).
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed by Tyco 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) |
|--------|------------|--------|-------|
| OOUNCE | COMMICCION | (IICUI | · uoc |

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification

| ENTER CUSTOMER INFORMATION | | | | |
|---|--------------------------|--|--|--|
| Company | Location | | | |
| Contact Name | Title | | | |
| Telephone | Fax | | | |
| Email Address | | | | |
| I am: 🗅 End user 🗅 Contract manufacturer (end us | ser:) | | | |
| Signature | Today's Date | | | |
| | Annual Quantity Required | | | |

Submit to your local Tyco Electronics Sales Engineer.



Socket Housing Part Number 1648135-1

| Socket C | Socket Contact Selection Menu | | | | |
|----------|-------------------------------|----|-------------|--------------------------------|------|
| Size | Re | f. | Part Number | Termination Style & Pin Length | Qty. |
| #4 | Α | = | 6648434-1 | Crimp | |
| #4 | В | = | 6648435-1 | 1/4-20 External Thread | |
| #8 | С | = | 6648317-1 | Crimp | |
| πο | D | = | 6648400-1 | PCB Tail | |
| #20 | Е | = | 1648325-1 | Crimp | |
| πΖυ | F | = | 1648382-1 | PCB Tail | |
| #12 | G | = | 6648318-1 | Crimp | |
| #12 | Η | = | 6648374-1 | PCB Tail | |
| #12 Hot | J | = | 1648384-1 | Crimp, Hot Plug | |
| Plug | K | = | 1648387-1 | PCB Tail, Hot Plug | |

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

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

Top Assembly Part Number Assigned by Tyco Electronics



Square Drawer Connector Pin Side Layout Form

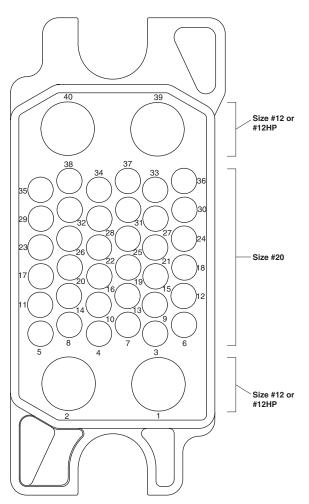
Pin Assembly

- 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: 🗅 End user 🗅 Contract manufacturer (end us | ser:) | | | |
| 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 Conta | act Sel | ection Menu | | |
|-----------|---------|-------------|--------------------------------|------|
| Size | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| | A = | 1650155-1 | Crimp, standard | |
| | В = | 1650161-1 | Crimp, premate | |
| #20 | C = | 1650162-2 | Crimp, postmate | |
| π20 | D = | 1650283-1 | PCB tail, standard | |
| | E = | 1650065-1 | PCB tail, premate | |
| | F = | 1650226-1 | PCB tail, postmate | |
| | G = | 1766193-1 | Crimp, standard | |
| | H = | 1766195-1 | Crimp, premate | |
| #12 | J = | 1766196-1 | Crimp, postmate | |
| π12 | K = | 1766245-1 | PCB tail, standard | |
| | L = | 1766250-1 | PCB tail, premate | |
| | M = | 1766249-1 | PCB tail, postmate | |
| | N = | 1650153-2 | Crimp, standard, Hot Plug | |
| #12 Hot | P = | 1650156-2 | Crimp, premate, Hot Plug | |
| 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



Square Drawer Connector Socket Side Layout Form

Socket Assembly

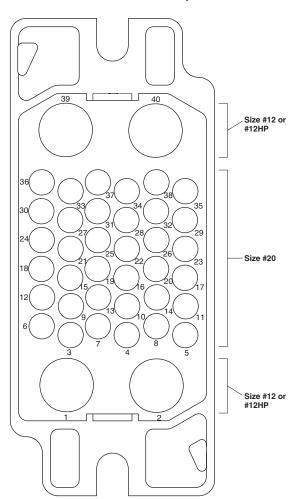
- 1. Enter company and contact information (at right).
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco 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 CUSTOMI | ER INFORMATION |
|--|--------------------------|
| Company | Location |
| Contact Name | Title |
| Telephone | Fax |
| Email Address | |
| I am: □ End user □ Contract manufacturer (end us | ser:) |
| 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 C | ontac | t Selection Me | nu | |
|-----------------|-------|----------------|--------------------------------|------|
| Size | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| | Α = | 1648325-1 | Crimp | |
| #20 | В = | 6648301-1 | Compliant Press-fit | |
| | C = | 1648382-1 | PCB Tail | |
| | D = | 6648318-1 | Crimp | |
| #12 | E = | 6648304-1 | Compliant Press-fit | |
| | F = | 6648374-1 | PCB Tail | |
| #40 H-1 | G = | 1648384-1 | Crimp, Hot Plug | |
| #12 Hot Plug | Н = | 6648305-1 | Compliant Press-fit, Hot Plug | |
| riug | 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



Top Drawer Connector Pin Side Layout Form

Pin Assembly

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

Company Location Contact Name Title Telephone Fax Email Address I am: □ End user □ Contract manufacturer (end user: Signature Today's Date Annual Quantity Required

ENTER CUSTOMER INFORMATION

Submit to your local Tyco Electronics Sales Engineer.

Pin Connector (Rear Face) Pin Contact Insertion Side

| Pin Contact Insertion Side Pin Connector Rear Face Cavity Identifica | ation |
|---|----------------------|
| (G2) | |
| | Size #0 |
| 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 | Size #20 |
| 35 36 37 38 39 40 41 42 43 44 45 46 | Size #16 |
| 47 48 49 | Size #12 or #12HP |
| 50 51 52 | |
| G3 G4 | |

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

| | | ection Menu | | |
|---------|------|-------------|-------------------------------------|------|
| Size | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| | A = | | Crimp | |
| | B = | 1766819-1 | Probe Proof, crimp | |
| | C = | 1766230-1 | 1/4-20 Internal Thread | |
| | D = | 1766274-1 | M6 x 1 Internal Thread | |
| #0 | E = | 1766269-1 | Probe Proof, 1/4-20 Internal Thread | |
| πυ | 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 | |
| - | L = | 1650155-1 | Crimp, standard | |
| | M = | 1650161-1 | Crimp, premate | |
| #20 | N = | 1650162-2 | Crimp, postmate | |
| #20 | P = | 1650283-1 | PCB tail, standard | |
| | Q = | 1650065-1 | PCB tail, premate | |
| | R = | 1650226-1 | PCB tail, postmate | |
| | S = | 1766194-1 | Crimp, standard | |
| | T = | 1766198-1 | Crimp, premate | |
| #16 | U = | 1766199-1 | Crimp, postmate | |
| #10 | V = | 1766222-1 | PCB tail, standard | |
| | W = | 1766223-1 | PCB tail, premate | |
| | X = | 1766818-1 | PCB tail, postmate | |
| | Y = | 1766193-1 | Crimp, standard | |
| | Z = | 1766195-1 | Crimp, premate | |
| #12 | AA = | 1766196-1 | Crimp, postmate | |
| #12 | AB = | 1766245-1 | PCB tail, standard | |
| | AC = | 1766250-1 | PCB tail, premate | |
| | AD = | 1766249-1 | PCB tail, postmate | |
| | AE = | 1650153-2 | Crimp, standard, Hot Plug | |
| #12 Hot | AF = | 1650156-2 | Crimp, premate, Hot Plug | |
| 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 | Float Mount Shoulder Screw | | |
|--------|----------------------------|------------------------|------|
| Part N | umber | Description | Qty. |
| 1650 | 399-1 | Screw, No 10-32 UNC 2A | |
| 1650 | 401-1 | Screw, M5 x 0.8 | |

Top Assembly Part Number Assigned by Tyco Electronics

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www.tycoelectronics.com



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.
- 3. Crimp contacts are shipped uninstalled. Threaded, Press-fit and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 PCB tail contact to be installed in contact position #51, write "U" in circle #51.
- 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 Identifi | cation |
|---|----------------------|
| (G2) (G1) | |
| | Size #0 |
| (10 9 8 7 6 5 4 3) (18 17 16 15 14 13 12 11) (26 25 24 23 22 21 20 19) (34 33 32 31 30 29 28 27) | Size #20 |
| 46 45 44 43 42 41 | Size #16 |
| 49 48 47 | Size #12 or #12HP |
| 52 51 50 | |
| G4 G3 | |

Top Assembly Part Number Assigned by Tyco Electronics

| ENTER CUSTOMI | ER INFORMATION |
|--|--------------------------|
| Company | Location |
| Contact Name | Title |
| Telephone | Fax |
| Email Address | |
| I am: □ End user □ Contract manufacturer (end us | ser:) |
| Signature | Today's Date |
| | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

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

| Socket C | onta | ct | Selection Me | nu | |
|-----------------|------|----|--------------|-------------------------------------|------|
| Size | Ref | | Part Number | Termination Style & Pin Length | Qty. |
| | Α | = | 6648405-1 | Crimp | |
| | В | = | 6648418-1 | Probe Proof, crimp | |
| | С | = | 6648416-1 | 1/4-20 Internal Thread | |
| | D | = | 6648428-1 | M6 x 1 Internal Thread | |
| #0 | Е | = | 6648419-1 | Probe Proof, 1/4-20 Internal Thread | |
| #0 | F | = | 6648429-1 | Probe Proof, M6 x 1 Internal Thread | |
| | G | = | 6648417-1 | 1/4-20 External Thread | |
| | Н | = | 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 | |
| | Р | = | 6648319-1 | Crimp | |
| #16 | Q | = | 6648306-1 | Compliant Press-fit | |
| | R | = | 6648383-1 | PCB Tail | |
| | S | = | 6648318-1 | Crimp | |
| #12 | T | = | 6648304-1 | Compliant Press-fit | |
| | U | = | 6648374-1 | PCB Tail | |
| #40 He* | V | = | 1648384-1 | Crimp, Hot Plug | |
| #12 Hot Plug | W | = | 6648305-1 | Compliant Press-fit, Hot Plug | |
| riuy | Χ | = | 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 | | |



Double Drawer Connector Pin Side Layout Form

Pin Assembly

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

| ENTER CUSTOMI | ER INFORMATION |
|---|--------------------------|
| Company | Location |
| Contact Name | Title |
| Telephone | Fax |
| Email Address | |
| I am: 🗅 End user 🗅 Contract manufacturer (end us | ser:) |
| Signature | Today's Date |
| | Annual Quantity Required |

Submit to your local Tyco Electronics Sales Engineer.

| Pin Housing Selection Menu | | Check |
|----------------------------|---------------------------------------|-------|
| Part Number | Description | One |
| 1648552-1 | Housing without guides | |
| | Housing with guides (#6-32 thread) | |
| | Housing with guides (M3 x 0.5 thread) | |

| Size | Ref. | Part Number | Termination Style & Pin Length | Qty. |
|---------|------|-------------|-------------------------------------|------|
| | A = | 1766811-1 | Crimp | |
| | В = | 1766819-1 | Probe Proof, crimp | |
| | C = | 1766230-1 | 1/4-20 Internal Thread | |
| | D = | 1766274-1 | M6 x 1 Internal Thread | |
| #0 | E = | 1766269-1 | Probe Proof, 1/4-20 Internal Thread | |
| #0 | 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 | |
| | L = | 1650155-1 | Crimp, standard | |
| | M = | 1650161-1 | Crimp, premate | |
| #20 | N = | 1650162-2 | Crimp, postmate | |
| #20 | P = | 1650283-1 | PCB tail, standard | |
| | Q = | 1650065-1 | PCB tail, premate | |
| | R = | 1650226-1 | PCB tail, postmate | |
| | S = | 1766193-1 | Crimp, standard | |
| | T = | 1766195-1 | Crimp, premate | |
| #12 | U = | 1766196-1 | Crimp, postmate | |
| #12 | V = | 1766245-1 | PCB tail, standard | |
| | W = | 1766250-1 | PCB tail, premate | |
| | X = | 1766249-1 | PCB tail, postmate | |
| | Y = | 1650153-2 | Crimp, standard, Hot Plug | |
| #12 Hot | Z = | 1650156-2 | Crimp, premate, Hot Plug | |
| 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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Pin Connector (Rear Face) Pin Contact Insertion Side

| Pin Contact Insertion Side Pin Connector Rear Face Cavity Identifica | ation |
|--|----------------------|
| G1 G2 | |
| | Size #0 |
| 3 4 | |
| $ \begin{array}{ c c c c c c } \hline & 5 & 6 & 7 & 8 \\ \hline & 9 & 10 & 11 & 12 \\ \hline \end{array} $ | Size #12 or #12HP |
| 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 | Size #20 |
| 37 38 39 | Size #12 or #12HP |
| G3 G4 | |

Top Assembly Part Number Assigned by Tyco Electronics



Double Drawer Connector Socket Side Layout Form

Socket Assembly

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

| ENTER CUSTOMER INFORMATION | | | | |
|--|--------------------------|--|--|--|
| Company | Location | | | |
| Contact Name | Title | | | |
| Telephone | Fax | | | |
| Email Address | | | | |
| I am: ☐ End user☐ Contract manufacturer (end user: | | | | |
| Signature | Today's Date | | | |
| | Annual Quantity Required | | | |

Submit to your local Tyco Electronics Sales Engineer.

| Socket Connector (Hear Face) |
|---|
| Socket Contact Insertion Side |
| Socket Connector Rear Face Cavity Identific |

| Socket Connector (Hear Face) Socket Contact Insertion Side | |
|--|----------------------|
| Socket Connector Rear Face Cavity Identifi | cation |
| (G2) (G1) | |
| | Size #0 |
| 4 3 | |
| 8 7 6 5 | Size #12 or #12HP |
| 12 11 10 9 | |
| 20 19 18 17 16 15 14 13 28 \(\) 27 \(\) 26 \(\) 25 \(\) 24 \(\) 23 \(\) 22 \(\) 21 | Size #20 |
| 36 35 34 33 32 31 30 29 | |
| 39 38 37 | Size #12 or #12HP |
| G3 G3 | |

| Top Asse | mbly | / Part | Number |
|----------|-------|--------|-----------|
| Assigned | by Ty | /co El | ectronics |

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

| Socket C | onta | ict | Selection Me | enu | |
|-----------------|------|-----|--------------|-------------------------------------|------|
| Size | Re | f. | Part Number | Termination Style & Pin Length | Qty. |
| | Α | = | 6648405-1 | Crimp | |
| | В | = | 6648418-1 | Probe Proof, crimp | |
| | С | = | 6648416-1 | 1/4-20 Internal Thread | |
| | D | = | 6648428-1 | M6 x 1 Internal Thread | |
| #0 | Ε | = | 6648419-1 | Probe Proof, 1/4-20 Internal Thread | |
| πυ | F | = | 6648429-1 | Probe Proof, M6 x 1 Internal Thread | |
| | G | = | 6648417-1 | 1/4-20 External Thread | |
| | Н | = | 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 | |
| | Р | = | 6648318-1 | Crimp | |
| #12 | Q | = | 6648304-1 | Compliant Press-fit | |
| | R | = | 6648374-1 | PCB Tail | |
| #40 He* | S | = | 1648384-1 | Crimp, Hot Plug | |
| #12 Hot Plug | Τ | = | 6648305-1 | Compliant Press-fit, Hot Plug | |
| ı iuy | 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 | | |



DualPower Drawer Connector Pin Side Layout Form

Pin Assembly

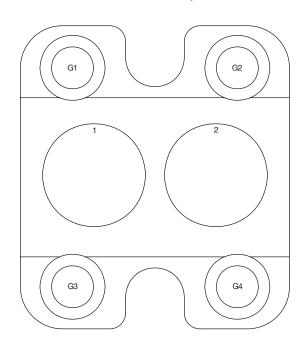
- Choose one housing from the Pin Housing Selection Menu table. Place an X in the appropriate guide pin circles, if guide pins are required.
- Write the total quantity of each pin contact you require for each pin assembly in the Qty column of the Pin Contact Selection Menu table.
- 3. Crimp contacts 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: □ End user □ 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 Contact Insertion Side
Pin Connector Rear Face Cavity Identification



Top Assembly Part Number Assigned by Tyco Electronics

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

| Pin Conta | act Se | lection Menu | | |
|-----------|--------|--------------|-------------------------------------|------|
| Size | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| | A = | 1766811-1 | Crimp | |
| | В = | 1766819-1 | Probe Proof, crimp | |
| | C = | 1766230-1 | 1/4-20 Internal Thread | |
| | D = | 1766274-1 | M6 x 1 Internal Thread | |
| #0 | E = | 1766269-1 | Probe Proof, 1/4-20 Internal Thread | |
| πυ | F = | 1766275-1 | Probe Proof, M6 x 1 Internal Thread | |
| | G = | 1766268-1 | 1/4-20 External Thread | |
| | Н = | 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

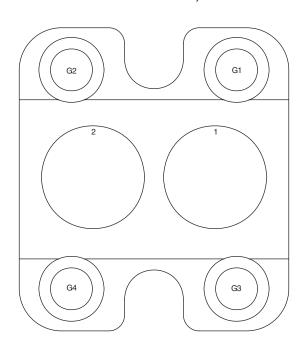
- Choose one housing from the Socket Housing Selection Menu table.
 Place an X in the appropriate guide pin circles, if guide pins are required.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp 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 | | | | | |
| l am: □ End user □ 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 Asse | mbly | Part Nu | mber |
|----------|--------|-----------|--------|
| Assigned | by Tyo | co Electi | ronics |

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

| Socket C | Socket Contact Selection Menu | | | | |
|----------|-------------------------------|----|-------------|-------------------------------------|------|
| Size | Re | f. | Part Number | Termination Style & Pin Length | Qty. |
| | Α | = | 6648405-1 | Crimp | |
| | В | = | 6648418-1 | Probe Proof, crimp | |
| | С | = | 6648416-1 | 1/4-20 Internal Thread | |
| | D | = | 6648428-1 | M6 x 1 Internal Thread | |
| #0 | Е | = | 6648419-1 | Probe Proof, 1/4-20 Internal Thread | |
| πυ | F | = | 6648429-1 | Probe Proof, M6 x 1 Internal Thread | |
| | G | = | 6648417-1 | 1/4-20 External Thread | |
| | Н | = | 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

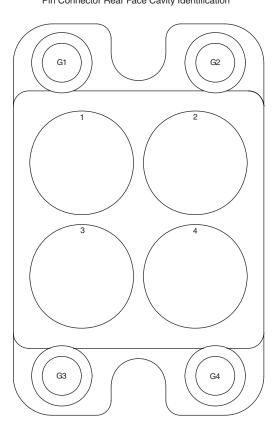
Pin Assembly

- 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: □ End user □ 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 Asse | mb | ily Pa | art | Num | ber |
|----------|----|--------|-----|-------|------|
| Assigned | by | Tyco | El | ectro | nics |

| Pin Housing Selection Menu | | |
|----------------------------|---------------------------------------|-----|
| Part Number | Description | One |
| 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. |
| | A = | 1766811-1 | Crimp | |
| | В = | 1766819-1 | Probe Proof, crimp | |
| | C = | 1766230-1 | 1/4-20 Internal Thread | |
| | D = | 1766274-1 | M6 x 1 Internal Thread | |
| #0 | E = | 1766269-1 | Probe Proof, 1/4-20 Internal Thread | |
| πυ | F = | 1766275-1 | Probe Proof, M6 x 1 Internal Thread | |
| | G = | 1766268-1 | 1/4-20 External Thread | |
| | Н = | 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 | | |



QuadPower Drawer Connector Socket Side Layout Form

Socket Assembly

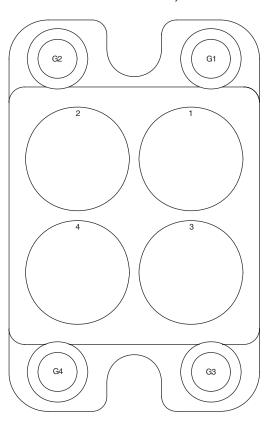
- Choose one housing from the Socket Housing Selection Menu table.
 Place an X in the appropriate guide pin circles, if guide pins are required.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp 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 | | | | | |
| l am: □ End user □ 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 ASSE | mb | ily Pa | ırt | Num | ıber |
|----------|----|--------|-----|-------|------|
| Assigned | by | Tyco | El | ectro | nics |

| Socket Housing Selection Menu | | Check |
|-------------------------------|---------------------------------------|-------|
| Part Number Description | | One |
| 1648574-1 | Housing without guides | |
| | Housing with guides (#6-32 thread) | |
| | Housing with guides (M3 x 0.5 thread) | |

| Socket Contact Selection Menu | | | | | |
|-------------------------------|----|----|-------------|-------------------------------------|------|
| Size | Re | f. | Part Number | Termination Style & Pin Length | Qty. |
| | Α | = | 6648405-1 | Crimp | |
| | В | = | 6648418-1 | Probe Proof, crimp | |
| | С | = | 6648416-1 | 1/4-20 Internal Thread | |
| | D | = | 6648428-1 | M6 x 1 Internal Thread | |
| #0 | Е | = | 6648419-1 | Probe Proof, 1/4-20 Internal Thread | |
| #0 | F | = | 6648429-1 | Probe Proof, M6 x 1 Internal Thread | |
| | G | = | 6648417-1 | 1/4-20 External Thread | |
| | Н | = | 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 | | | |



In-Line QuadPower Drawer Connector Pin Side Layout Form

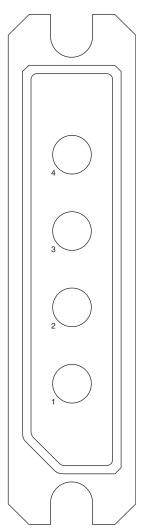
Pin Assembly

- 1. Enter company and contact information (at right).
- 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 | | | | | |
| l am: □ End user □ Contract manufacturer (end us | ser:) | | | | |
| 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

| in Cont | act Se | lection Menu | | |
|---------|--------|--------------|-------------------------------------|-----|
| Size | Ref. | Part Number | Termination Style & Pin Length | Qty |
| | Α = | 1766811-1 | Crimp | |
| | В = | 1766819-1 | Probe Proof, crimp | |
| | C = | 1766230-1 | 1/4-20 Internal Thread | |
| | D = | 1766274-1 | M6 x 1 Internal Thread | |
| #0 | E = | 1766269-1 | Probe Proof, 1/4-20 Internal Thread | |
| #0 | F = | 1766275-1 | Probe Proof, M6 x 1 Internal Thread | |
| | G = | 1766268-1 | 1/4-20 External Thread | |
| | Н = | 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



In-Line QuadPower Drawer Connector Socket Side Layout Form

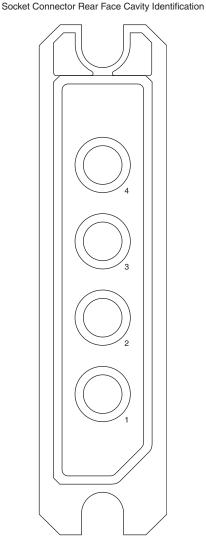
Socket Assembly

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

| ENTER CUSTOMER INFORMATION | | | | | |
|--|--------------------------|--|--|--|--|
| Company | Location | | | | |
| Contact Name | Title | | | | |
| Telephone | Fax | | | | |
| Email Address | | | | | |
| I am: □ End user □ Contract manufacturer (end us | ser:) | | | | |
| Signature | Today's Date | | | | |
| | Annual Quantity Required | | | | |

Submit to your local Tyco Electronics Sales Engineer.

Socket Connector (Rear Face) Socket Contact Insertion Side



Socket Housing Part Number 1651404-1

| ocket (| Conta | act | Selection Me | nu | |
|---------|-------|-----|---------------------|-------------------------------------|------|
| Size | Re | f. | Part Number | Termination Style & Pin Length | Qty. |
| | Α | = | 6648405-1 | Crimp | |
| | В | = | 6648418-1 | Probe Proof, crimp | |
| | С | = | 6648416-1 | 1/4-20 Internal Thread | |
| | D | = | 6648428-1 | M6 x 1 Internal Thread | |
| #0 | Ε | = | 6648419-1 | Probe Proof, 1/4-20 Internal Thread | |
| #0 | F | = | 6648429-1 | Probe Proof, M6 x 1 Internal Thread | |
| | G | = | 6648417-1 | 1/4-20 External Thread | |
| | Н | = | 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



W5 Power Drawer Connector Pin Side Layout Form

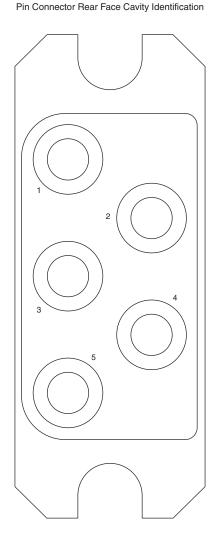
Pin Assembly

- 1. Enter company and contact information (at right).
- 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: □ End user □ Contract manufacturer (end us | ser:) | | | | |
| Signature | Today's Date | | | | |
| | Annual Quantity Required | | | | |

Submit to your local Tyco Electronics Sales Engineer.

Pin Connector (Rear Face) Pin Contact Insertion Side



Pin Housing Part Number 6651457-1

| Pin Contact Selection Menu | | | | | |
|----------------------------|------|-------------|--------------------------------|------|--|
| Size | Ref. | Part Number | Termination Style & Pin Length | Qty. | |
| | A = | 1766232-1 | Crimp, standard | | |
| #4 | В = | 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



W5 Power Drawer Connector Socket Side Layout Form

Socket Assembly

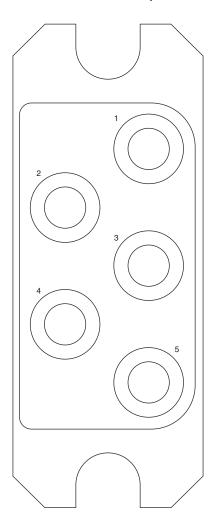
- 1. Enter company and contact information (at right).
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Threaded contacts are installed by Tyco Electronics;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

| ENTER CUSTOMER INFORMATION | | |
|--|--------------------------|--|
| Company | Location | |
| Contact Name | Title | |
| Telephone | Fax | |
| Email Address | | |
| I am: ☐ End user☐ Contract manufacturer (end user: | | |
| Signature | Today's Date | |
| | Annual Quantity Required | |

Submit to your local Tyco Electronics Sales Engineer.

Socket Connector (Rear Face)

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification



Socket Housing Part Number 6651458-1

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

Contacts are removable.

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

Top Assembly Part Number Assigned by Tyco Electronics



HV8P Drawer Connector Pin Side Layout Form

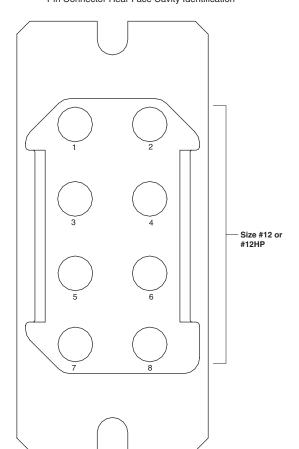
Pin Assembly

- 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 | | |
| Tam: □ End user □ 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



| LIII UARIIII | j Part Mullinei |
|--------------|-----------------|
| 1648127-1 | = Fixed Mount |

| 1648127-1 | = Fixed Mount |
|-----------|---------------|
| | |

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

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

Top Assembly Part Number Assigned by Tyco Electronics



HV8P Drawer Connector Socket Side Layout Form

Socket Assembly

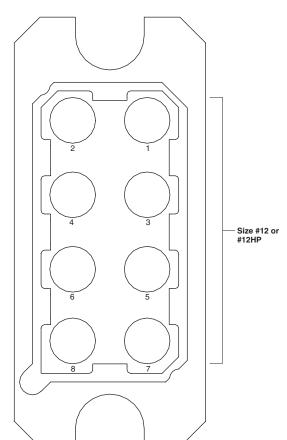
- 1. Enter company and contact information (at right).
- 2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by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

| ENTER CUSTOMER INFORMATION | | |
|---|--------------------------|--|
| Company | Location | |
| Contact Name | Title | |
| Telephone | Fax | |
| Email Address | | |
| I am: □ End user □ 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. |
| | Α = | 6648318-1 | Crimp | |
| #12 | В = | 6648304-1 | Compliant Press-fit | |
| | C = | 6648374-1 | PCB Tail | |
| #40 H-1 | D = | 1648384-1 | Crimp, Hot Plug | |
| #12 Hot Plug | E = | 6648305-1 | Compliant Press-fit, Hot Plug | |
| iluy | 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

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P10S0 Drawer Connector Pin Side Layout Form

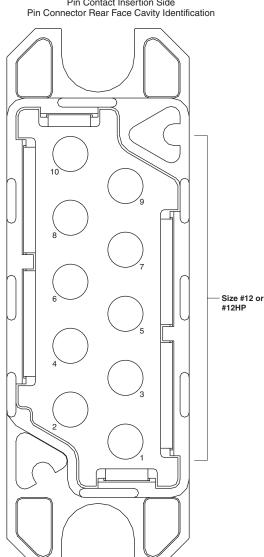
Pin Assembly

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

| ENTER CUSTOMER INFORMATION | | | |
|--|--------------------------|--|--|
| Company | Location | | |
| Contact Name | Title | | |
| Telephone | Fax | | |
| Email Address | | | |
| I am: ☐ End user☐ Contract manufacturer (end user: | | | |
| Signature | Today's Date | | |
| | Annual Quantity Required | | |

Submit to your local Tyco Electronics Sales Engineer.

| Pin Connector (Rear Face) |
|---|
| Pin Contact Insertion Side |
| Pin Connector Rear Face Cavity Identification |



Pin Housing Part Number 1648568-1

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



P10S0 Drawer Connector Socket Side Layout Form

Socket Assembly

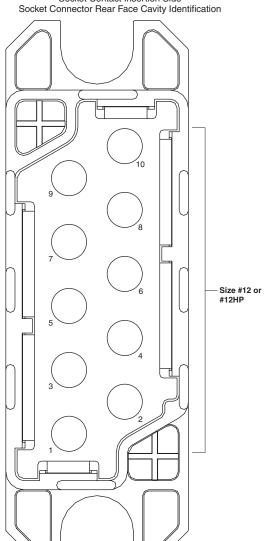
- 1. Enter company and contact information (at right).
- 2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by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

| ENTER CUSTOMER INFORMATION | | | | |
|---|--------------------------|--|--|--|
| Company | Location | | | |
| Contact Name | Title | | | |
| Telephone | Fax | | | |
| Email Address | | | | |
| I am: Dend user Contract manufacturer (end us | ser:) | | | |
| Signature | Today's Date | | | |
| | Annual Quantity Required | | | |
| | | | | |

Submit to your local Tyco Electronics Sales Engineer.

Socket Connector (Rear Face)

Socket Contact Insertion Side



| Socket Housing Part Number |
|----------------------------|
| |

| 1648596-1 | |
|-----------|--|
| | |

| Socket Contact Selection Menu | | | | |
|-------------------------------|-----|-------------|--------------------------------|------|
| Size Ref. | | Part Number | Termination Style & Pin Length | Qty. |
| | A = | 6648318-1 | Crimp | |
| #12 | B = | 6648304-1 | Compliant Press-fit | |
| | C = | 6648374-1 | PCB Tail | |
| #40 H-1 | D = | 1648384-1 | Crimp, Hot Plug | |
| #12 Hot Plug | E = | 6648305-1 | Compliant Press-fit, Hot Plug | |
| 1 lug | 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

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www.tycoelectronics.com



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.
- Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

| Pin Connector (Rear Face) |
|---|
| Pin Contact Insertion Side |
| Pin Connector Bear Face Cavity Identification |

| | Company | Location | |
|---|---|--------------------------|--|
| ire for each pin ction Menu table. | Contact Name | Title | |
| tacts are installed desired contact | Telephone | Fax | |
| e.g., if you need be installed in | Email Address | | |
| I Tyco Electronics | I am: □ End user □ Contract manufacturer (end user: | | |
| | Signature | Today's Date | |
| | | Annual Quantity Required | |
| | Submit to your local Tyco Electronics Sal | les Engineer. | |
| | | | |
| | | | |

ENTER CUSTOMER INFORMATION

| Size #12 |
|----------|
| |
| Size #12 |
| |

Pin Housing Part Number 1648211-1

| Pin Conta | act S | el | ection Menu | | |
|-----------|-------|----|-------------|--------------------------------|------|
| Size | Ref | | Part Number | Termination Style & Pin Length | Qty. |
| | Α | = | 1650155-1 | Crimp, standard | |
| | В | = | 1650161-1 | Crimp, premate | |
| #20 | С | = | 1650162-2 | Crimp, postmate | |
| πΖυ | D | = | 1650283-1 | PCB tail, standard | |
| | Ε | = | 1650065-1 | PCB tail, premate | |
| | F | = | 1650226-1 | PCB tail, postmate | |
| #12 | G | = | 1766193-1 | Crimp, standard | |
| | Н | = | 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 | |
| | N | = | 1650153-2 | Crimp, standard, Hot Plug | |
| #12 Hot | Р | = | 1650156-2 | Crimp, premate, Hot Plug | |
| 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



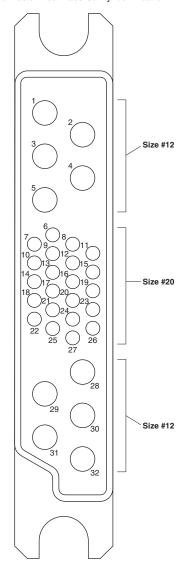
P10S22 Drawer Connector Socket Side Layout Form

Socket Assembly

- 1. Enter company and contact information (at right).
- 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.

| Saakat | Connector | /Dage | Eaco) |
|--------|-----------|-------|-------|
| | | | |

Socket Contact Insertion Side
Socket Connector Rear Face Cavity Identification



| ENTER CUSTOMER INFORMATION | | | |
|---|--------------------------|--|--|
| Company | Location | | |
| Contact Name | Title | | |
| Telephone | Fax | | |
| Email Address | | | |
| I am: 🗅 End user 🗅 Contract manufacturer (end us | ser:) | | |
| 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. |
| | A = | 1648325-1 | Crimp | |
| #20 | B = | 6648301-1 | Compliant Press-fit | |
| | C = | 1648382-1 | PCB Tail | |
| | D = | 6648318-1 | Crimp | |
| #12 | E = | 6648304-1 | Compliant Press-fit | |
| | F = | 6648374-1 | PCB Tail | |
| #40 HeA | G = | 1648384-1 | Crimp, Hot Plug | |
| #12 Hot Plug | H = | 6648305-1 | Compliant Press-fit, Hot Plug | |
| i iug | 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

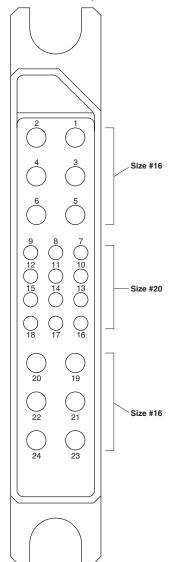


P12S12 Drawer Connector Pin Side Layout Form

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: 🗅 End user 🗅 Contract manufacturer (end us | ser:) | | |
| 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. | |
| | A = 1650155-1 | Crimp, standard | | |
| | B = 1650161-1 | Crimp, premate | | |
| #20 | C = 1650162-2 | Crimp, postmate | | |
| πΖυ | D = 1650283-1 | PCB tail, standard | | |
| | E = 1650065-1 | PCB tail, premate | | |
| | F = 1650226-1 | PCB tail, postmate | | |
| | G = 1766194-1 | Crimp, standard | | |
| | H = 1766198-1 | Crimp, premate | | |
| #16 | J = 1766199-1 | Crimp, postmate | | |
| πιο | 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



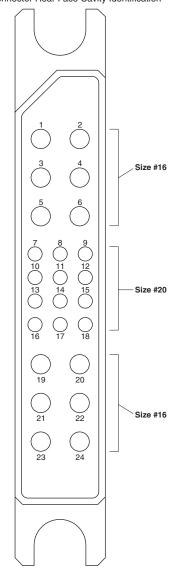
P12S12 Drawer Connector Socket Side Layout Form

Socket Assembly

- 1. Enter company and contact information (at right).
- 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 | r (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: 🗅 End user 🗅 Contract manufacturer (end us | ser:) | | |
| 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. |
| | A = | 1648325-1 | Crimp | |
| #20 | В = | 6648301-1 | Compliant Press-fit | |
| | C = | 1648382-1 | PCB Tail | |
| | D = | 6648319-1 | Crimp | |
| #16 | 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



POS30 Drawer Connector Pin Side Layout Form

Pin Assembly

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

| Pin Connector (Rear Face) |
|---|
| Pin Contact Insertion Side |
| Pin Connector Rear Face Cavity Identification |

| ENTER CUSTOMER INFORMATION | | |
|---|--------------------------|--|
| Company | Location | |
| Contact Name | Title | |
| Telephone | Fax | |
| Email Address | | |
| I am: □ End user □ Contract manufacturer (end us | eer: | |
| Signature | Today's Date | |
| | Annual Quantity Required | |
| Cubmit to your local Type Floatronics Co | les Fasiassa | |

Submit to your local Tyco Electronics Sales Engineer.

| nnector Rear Face Cavity Ident | tification |
|--|------------|
| | |
| 3 2 1 6 5 4 9 8 7 112 11 10 15 14 13 18 17 16 21 20 22 24 23 22 27 26 25 30 29 28 | Size #20 |
| | |

Pin Housing Part Number 6651204-1

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

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

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

Top Assembly Part Number Assigned by Tyco Electronics



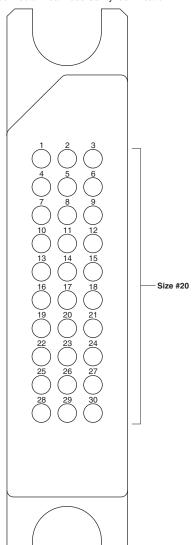
POS30 Drawer Connector Socket Side Layout Form

Socket Assembly

- 1. Enter company and contact information (at right).
- 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.

| Sacket | Connector | (Roar | Eaco) |
|--------|-----------|-------|-------|
| | | | |

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification



| ENTER CUSTOMER INFORMATION | | | |
|---|--------------------------|--|--|
| Company | Location | | |
| Contact Name | Title | | |
| Telephone | Fax | | |
| Email Address | | | |
| I am: 🗅 End user 🗅 Contract manufacturer (end us | ser:) | | |
| Signature | Today's Date | | |
| | Annual Quantity Required | | |

Submit to your local Tyco Electronics Sales Engineer.

Socket Housing Part Number

6651205-1

| Socket C | Contact | Selection Me | nu | |
|----------|---------|--------------|--------------------------------|------|
| Size | Ref. | Part Number | Termination Style & Pin Length | Qty. |
| | A = | 1648325-1 | Crimp | |
| #20 | В = | 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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