

# AMP & ELCON Power Connector Layout Forms





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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
  - Center 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

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

RoHS

Customer

Support



## **MULTI-BEAM XL Custom Connector Worksheet**

PCB Mount		Cable Mount XYZ Floating		YYZ Floa	ting
Receptacle Elect	Right Angle Shown)	Slide-to-Lock	te this worksheet	Squeeze- Release	
1. Application	Board-to-Board	intere entipity compile		Cable-to-Boa	
2. Gender	Plug (Male)			Receptacle (F	
3. Orientation	Cable Only> D BI	ind Mate specify ight Angle	Floating or Slie	de-to-Lock recepta	
	Cable Only) Power 8 AWG Signal 22 AWG		0 AWG 24 AWG	12 AWG	i
5. Termination Sty		older tail .135″ [3 older tail .165″ [4		Press-Fit .120 Press-Fit .135 Press-Fit .165	5″ [3.43mm]
6. Mounting to PC	.122″ [3.10mm] N	lounting holes (A	-	ws, right angle co ws, right angle co	
7. Select # of Cont Section A: (Power Contact Center	Contacts) Enter # Enter the (Mate-F		e loaded with F ( i.e. #1,#3, etc. n] (HDP)		Power Contacts) Receptacles only)
Section B: (Signal	Enter the	.300″ [7.62mr of Signal Contac Positions with F	n](ACP) ets (Multiples of Post-Mate Conta		e. 16, 24, 32) eak-First, Plugs only)
Section C: (Power	Contacts) Enter # Enter the		ts (Loaded with loaded with Pr	standard length F	Power Contacts) Receptacles only)
Contact Center		.200″ [5.08mr .250″ [6.35mr .300″ [7.62mr	n] (HDP) n] (P)		
8. Additional Requ	irements				
9. Customer Inform Name:		npany:		Location:	
Phone:	Fax				(20 ELEOTRONICO
(Submit to your local Ty	co Electronics Sales Engineer)		AMP, ELCON, MULTI-E Tyco Electronics Corpo		YCO ELECTRONICS are trademarks of
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## MINIPAK Custom Connector Worksheet

#### **MINIPAK Connector**

Τνςο

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a. Enter your information in the table to the right.

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

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

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

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

#### 1. AC INPUT

□ No AC input required

□ 125 VAC spacing

250 VAC spacing

#### 2. SIGNAL CONTACTS

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

#### 3. DC INPUT/OUTPUT

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

	DC Requirements								
DC1 DC2 DC3 DC4 DC5 DC6 DC7 DC								DC8	
Current (A)									
Voltage (V)									
Blade Length	Standard								
	Premate								

#### 4. BOARD MOUNTING STYLE

Straight Socket (choose one)

□ Short solder tail (.062" thick boards)

□ Long solder tail (.093/.125" thick boards)

Compliant press-fit tails (.093" min. thick board recommended)

#### 5. OTHER REQUIREMENTS

NOTES:

Right Angle Blade (choose one)

□ Short solder tail (for .062" thick boards)

Long solder tail (.093/.125" thick boards)

Alignment guides required

mm)

For further clarity, you can attach a sketch to this form if necessary. Sketch attached: \_\_\_\_\_ pages

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## **FLATPAQ Connector Layout Form**

#### Instructions

**₹** <sub>Tyco</sub>

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- 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.
- Left to right order of the modules should match mating face views of the connector. When laying out right angle assemblies, make sure you look at the mating face with the termination tails facing downwards.
- 3. For solder terminated assemblies, indicate the tail length for each half of the connector using the checkboxes to the right of the layout grid.
- 4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

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

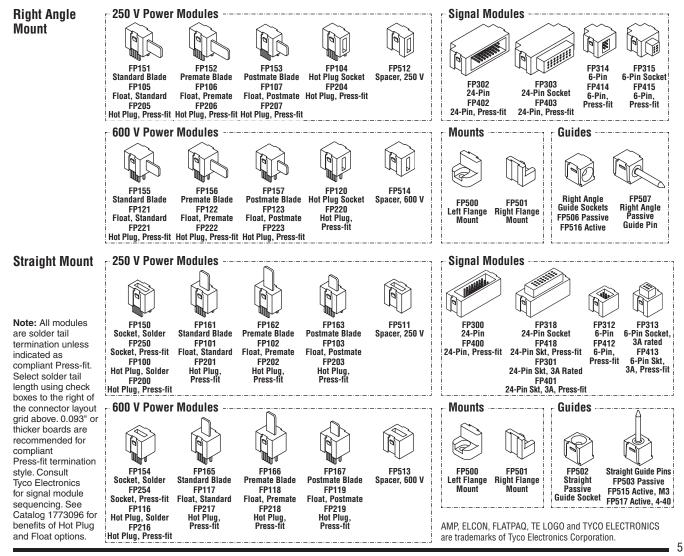
ENTER CUSTOMER INFORMATION							
Company	Location						
Contact Name	Title						
Telephone	Fax						
Email Address							
I am: □ End user □ Contract manufacturer (end user: )							
Signature	Today's Date						
	Annual Quantity Required						

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

FP	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



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

Submit to your local Tyco Electronics Sales Engineer.

Pin Housing Selection Menu						
Part Number	Description	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	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 =	1766194-1	Crimp, standard	
	Η =	1766198-1	Crimp, premate	
#16	J =	1766199-1	Crimp, postmate	
#10	Κ =	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	
<b>π1</b> Ζ	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	
	Х =	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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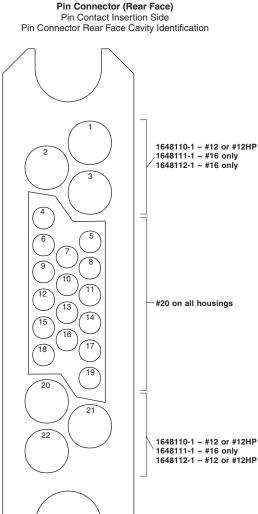
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Pin Connector (Rear Face) Pin Contact Insertion Side



## Mini Drawer Connector Socket Side Layout Form

#### Socket Assembly

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

1648115-1 - #12 or #12HP 1648116-1 – #16 only 1648117-1 – #16 only

#20 on all housings

1648115-1 – #12 or #12HP 1648116-1 – #16 only 1648117-1 – #12 or #12HP

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

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

Submit to your local Tyco Electronics Sales Engineer.

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	

Size	Ret	ŀ.	Selection Me 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	
	Κ	=	1648384-1	Crimp, Hot Plug	
#12 Hot	L	=	6648305-1	Compliant Press-fit, Hot Plug	
Plug	Μ	=	1648387-1	PCB Tail, Hot Plug	

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

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

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

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## Lower Drawer Connector Pin Side Layout Form

#### **Pin Assembly**

₹тусо

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- 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 Iam: □ End user<br/>□ Contract manufacturer (end user: \_\_\_\_\_\_) Signature Today's Date Annual Quantity Required

Submit to your local Tyco Electronics Sales Engineer.

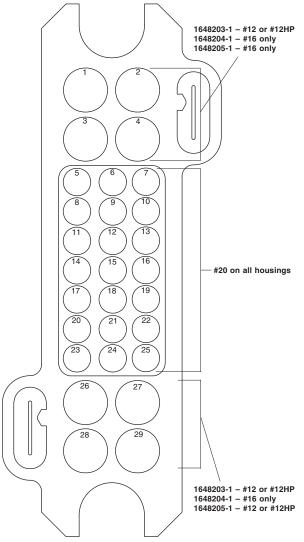
Pin Housing Selection Menu		Check
Part Number	Description	One
1648203-1	#12, #20, #12 Pin Housing, Float or Fixed Mounting	
1648204-1	#16, #20, #16 Pin Housing, Float or Fixed Mounting	
1648205-1	#16, #20, #12 Pin Housing, Float or Fixed Mounting	

Pin Conta	act Selection Men	u	
Size	Ref. Part Numbe	r Termination Style & Pin Length	Qty.
	A = 1650155-1	Crimp, standard	
	B = 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 = 1766194-1	Crimp, standard	
	H = 1766198-1	Crimp, premate	
#16	J = 1766199-1	Crimp, postmate	
#10	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	
<b>π1</b> Δ	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	

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



Top Assembly Part Number Assigned by Tyco Electronics

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## Lower Drawer Connector Socket Side Layout Form

#### Socket Assembly

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

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

Submit to your local Tyco Electronics Sales Engineer.

	Socket Housing Selection Menu		Check
,	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	ontact	Selection Me	nu	
Size	Ref.	Part Number	Termination Style	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	
	G =	6648318-1	Crimp	
#12	Η =	6648304-1	Compliant Press-fit	
	J =	6648374-1	PCB Tail	
	Κ =	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	L =	6648305-1	Compliant Press-fit, Hot Plug	
Filly	M =	1648387-1	PCB Tail, Hot Plug	

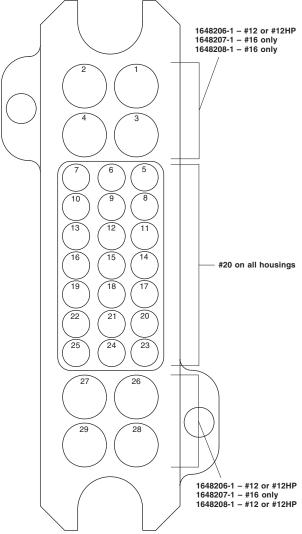
Crimp contacts are removable. Press-fit and PCB tail contacts are non-removable.

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

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## Socket Connector (Rear Face) Socket Contact Insertion Side

Socket Connector Rear Face Cavity Identification



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

Dimensions are in inches and

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## 75A Middle Drawer Connector Pin Side Layout Form

- 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 CUSTOMI	ER INFORMATION
Company	Location
Contact Name	Title
Telephone	Fax
Email Address	
I am: D End user D 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
1648162-1	Float Mount for Crimp Contacts	
1648163-1	Flush PCB Mount for PCB Tail Contacts	

Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1766192-1	Crimp, standard	
#8	B =	1766197-1	Crimp, premate	
π0	C =	1766262-1	PCB tail, standard	
	D =	1766263-1	PCB tail, premate	
	E =	1650155-1	Crimp, standard	
	F =	1650161-1	Crimp, premate	
#20	G =	1650162-2	Crimp, postmate	
#20	Η =	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	
#12	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 contacts are removable. PCB tail contacts are non-removable.

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

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

millimeters unless otherwise specified. Values in brackets are metric equivalents.

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

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: +44-(0) 800-267-666

Pin Connector (Rear Face) Pin Contact Insertion Side Pin Connector Rear Face Cavity Identification 37 36

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## **Pin Assembly**

₹тусо

Electronics

Catalog 6-1773444-7 Revised 10-07

www.tycoelectronics.com

Size #8

Size #20

Size #12 or

#12 HP

## 75A Middle Drawer Connector Socket Side Layout Form

#### **Socket Assembly**

36

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

Submit to your local Tyco Electronics Sales Engineer.

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

Size	Ref.	Part Number	Termination Style	Qty.
	A =	6648317-1	Crimp	
#8	B =	6648351-1	Knurled Press-fit	
	C =	6648400-1	PCB Tail	
	D =	1648325-1	Crimp	
#20	E =	6648294-1	Compliant Press-fit (Flush)	
	F =	1648382-1	PCB Tail	
	G =	6648318-1	Crimp	
#12	Η =	6648304-1	Compliant Press-fit	
	J =	6648374-1	PCB Tail	
	Κ =	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		

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

Catalog 6-1773444-7 Revised 10-07

specifi www.tycoelectronics.com are me

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

37

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15

Size #8

Size #20

Size #12 or #12 HP

## 125A Middle Drawer Connector Pin Side Layout Form

#### **Pin Assembly**

**₹**Тусо

Electronics

- 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.

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: D End user D Contract manufacturer	(end user: )			
Signature	Today's Date			
	Annual Quantity Required			

Submit to your local Tyco Electronics Sales Engineer.

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

Size	Re	f.	Part Number	Termination Style & Pin Length	Qty
#4	А	=	1766232-1	Crimp, standard	
	В	=	1766812-1	1/4-20 External Thread	
	С	=	1766283-1	M5 Internal Thread	
	Е	=	1650155-1	Crimp, standard	
	F	=	1650161-1	Crimp, premate	
#20	G	=	1650162-2	Crimp, postmate	
	Н	=	1650283-1	PCB tail, standard	
	J	=	1650065-1	PCB tail, premate	
	Κ	=	1650226-1	PCB tail, postmate	
L	L	=	1766193-1	Crimp, standard	
	Μ	=	1766195-1	Crimp, premate	
#12	Ν	=	1766196-1	Crimp, postmate	
#12	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	Т	=	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		

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

12

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#### 40 39 Size #4 38 37 36 35 3 32 34 30 3 29 28 26 25 27 24 23 22 21 20 18 17 16 15 14 12 13 1 10 9 8

Size #20 Size #12 or #12 HP 3

## 125A Middle Drawer Connector Socket Side Layout Form

#### Socket Assembly

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

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

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

Submit to your local Tyco Electronics Sales Engineer.

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

Size	Ref.	Part Number	Termination Style	Qty.
	A =	6648434-1	Crimp	
#4	В =	6648435-1	1/4-20 External Thread	
	C =	6648335-1	M5 Internal Thread	
	D =	1648325-1	Crimp	
#20	E =	6648301-1	Compliant Press-fit	
	F =	1648382-1	PCB Tail	
	G =	6648318-1	Crimp	
#12	Η =	6648304-1	Compliant Press-fit	
	J =	6648374-1	PCB Tail	
	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 and Threaded contacts are removable. Press-fit and PCB tail contacts are non-removable.

Size #12 or #12 HP

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

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

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## 39 40 Size #4

27

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Size #20

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## 200A Middle Drawer Connector Pin Side Layout Form

#### **Pin Assembly**

**₹** Tyco

Electronics

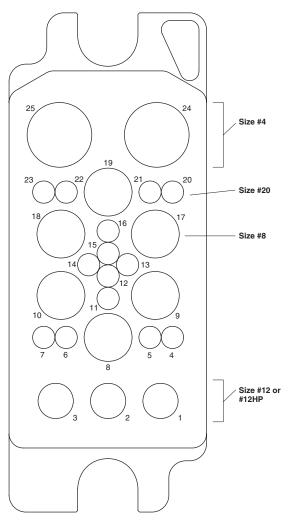
- 1. Enter company and contact information (at right).
- 2. Write the total quantity of each pin contact you require for each pin assembly in the Qty column of the Pin Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed by Tyco Electronics;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

Pin Connector (Rear Face)

Pin Contact Insertion Side Pin Connector Rear Face Cavity Identification

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 Housing Part Number** 1648134-1

Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
#4	A =	1766232-1	Crimp, standard	
π4	В =	1766812-1	1/4-20 External Thread	
#8	C =	1766192-1	Crimp, standard	
π0	D =	1766197-1	Crimp, premate	
	E =	1650155-1	Crimp, standard	
	F =	1650161-1	Crimp, premate	
#20	G =	1650162-2	Crimp, postmate	
#20	Η =	1650283-1	PCB tail, standard	
	J =	1650065-1	PCB tail, premate	
	Κ =	1650226-1	PCB tail, postmate	
	L =	1766193-1	Crimp, standard	
	M =	1766195-1	Crimp, premate	
#12	N =	1766196-1	Crimp, postmate	
#12	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 Plug	T =	1650156-2	Crimp, premate, Hot Plug	
	U =	1650060-2	PCB tail, standard, Hot Plug	
	V =	1650074-3	PCB tail, premate, Hot Plug	

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

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

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

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### Catalog 6-1773444-7 Revised 10-07

14

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

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

# 200A Middle Drawer Connector Socket Side Layout Form

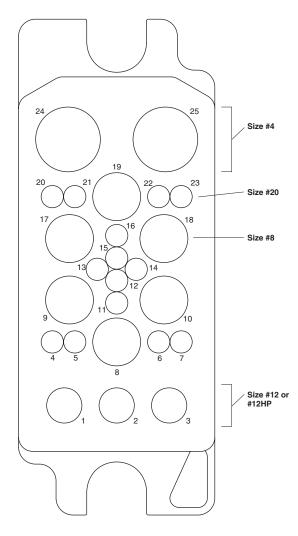
#### **Socket Assembly**

Electronics

**₹** Tyco

- 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) 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 user:			
Signature	Today's Date			
	Annual Quantity Required			

Submit to your local Tyco Electronics Sales Engineer.

Socket Housing Part Number 1648135-1

Socket Contact Selection Menu				
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
#4	A =	6648434-1	Crimp	
#4	В =	6648435-1	1/4-20 External Thread	
#8	C =	6648317-1	Crimp	
#0	D =	6648400-1	PCB Tail	
#20	E =	1648325-1	Crimp	
π20	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	Κ =	1648387-1	PCB Tail, Hot Plug	

 $\operatorname{Crimp}$  and  $\operatorname{Threaded}$  contacts are removable. Press-fit and PCB tail contacts are non-removable.

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

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

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## Square Drawer Connector Pin Side Layout Form

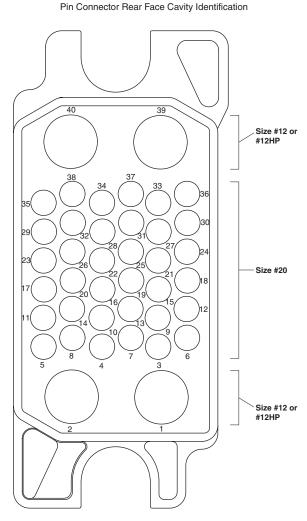
#### **Pin Assembly**

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

Pin Connector (Rear Face) Pin Contact Insertion Side

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 Housing Part Number	
1648132-1	

Pin Conta	act Sele	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	
#20	D =	1650283-1	PCB tail, standard	
	E =	1650065-1	PCB tail, premate	
	F =	1650226-1	PCB tail, postmate	
	G =	1766193-1	Crimp, standard	
	Η =	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		

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

16

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millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

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

## Square Drawer Connector Socket Side Layout Form

#### **Socket Assembly**

Тусо

Electronics

- 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.

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

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

Submit to your local Tyco Electronics Sales Engineer.

	1
	Size #12 or #12HP
$\begin{vmatrix} 36 \\ 30 \\ 30 \\ 31 \\ 31 \\ 31 \\ 31 \\ 31 \\ 31$	
$\left \begin{array}{c} 24 \\ 27 \\ 26 \\ 27 \\ 25 \\ 26 \\ 26 \\ 26 \\ 23 \\ 18 \\ 15 \\ 19 \\ 16 \\ 20 \\ 17 \\ 19 \\ 16 \\ 20 \\ 17 \\ 17 \\ 17 \\ 10 \\ 10 \\ 10 \\ 17 \\ 10 \\ 10$	Size #20
$\left \begin{array}{c}12\\0\\0\\0\\3\\7\\4\\8\\5\end{array}\right $	
	Size #12 or #12HP

Socket Housing Part Number	
1648133-1 = Fixed Mount only	

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	
	G =	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	H =	6648305-1	Compliant Press-fit, Hot Plug	
riuy	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

Catalog 6-1773444-7 Revised 10-07

www.tycoelectronics.com specifi are me

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## Top Drawer Connector Pin Side Layout Form

#### **Pin Assembly**

G1

- 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.

G2

40

46

Size #0

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 l am: 🗆 End user Contract manufacturer (end user: Signature Today's Date Annual Quantity Required

Submit to your local Tyco Electronics Sales Engineer.

Pin Housi	ıg Sel	lection Menu	Check
Part Numbe	er	Description	One
1648183-1		Housing without guides	
		Housing with guides (#6-32 thread)	
		Housing with guides (M3 x 0.5 thread)	
Pin Conta	ct Sel	lection Menu	
Size	Ref.	Part Number Termination Style & Pin Length	Qty.

Size #0			ection menu		
	Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
		A =	1766811-1	Crimp	
		B =	1766819-1	Probe Proof, crimp	
		C =	1766230-1	1/4-20 Internal Thread	
		D =	1766274-1	M6 x 1 Internal Thread	
		E =	1766269-1	Probe Proof, 1/4-20 Internal Thread	
	#0	F =	1766275-1	Probe Proof, M6 x 1 Internal Thread	
		G =	1766268-1	1/4-20 External Thread	
Size #20		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	
		N =	1650162-2	Crimp, postmate	
Size #16	#20	P =	1650283-1	PCB tail, standard	
5120 #10		Q =	1650065-1	PCB tail, premate	
		R =	1650226-1	PCB tail, postmate	
		S =	1766194-1	Crimp, standard	
		T =	1766198-1	Crimp, premate	
		U =	1766199-1	Crimp, postmate	
	#16	V =	1766222-1	PCB tail, standard	
		W =	1766223-1	PCB tail, premate	
		Х =	1766818-1	PCB tail, postmate	
Size #12 or #12HP		Y =	1766193-1	Crimp, standard	
#1288		Z =	1766195-1	Crimp, premate	
		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				

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

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G3

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

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

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

Screw, No 10-32 UNC 2A

Description

Screw, M5 x 0.8

**Float Mount Shoulder Screw** 

Part Number

1650399-1

1650401-1

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

Qty.

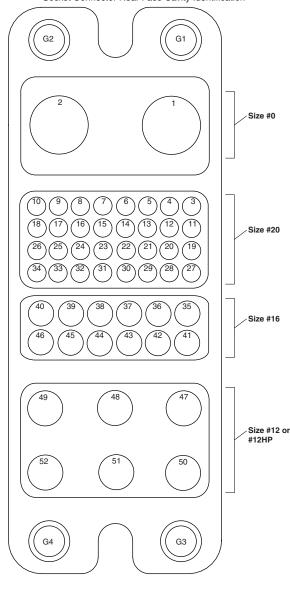
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## **Top Drawer Connector Socket Side Layout Form**

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

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



Top Assembly Part Number Assigned by Tyco Electronics

Dimensions are in inches and

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

Submit to your local Tyco Electronics Sales Engineer.

Pin Housing S	election 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)	

Size	Ref.		Part Number	Termination Style & Pin Length	Qty.
	A	=	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	
#U	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	
<b>#20</b>	Μ	=	6648301-1	Compliant Press-fit	
	Ν	=	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	Т	=	6648304-1	Compliant Press-fit	
	U	=	6648374-1	PCB Tail	
#10 Uet	V	=	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	W	=	6648305-1	Compliant Press-fit, Hot Plug	
riug	Х	=	1648387-1	PCB Tail, Hot Plug	

 $\mbox{Crimp}$  and  $\mbox{Threaded}$  contacts are removable. Press-fit and PCB tail contacts are non-removable.

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

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Catalog 6-1773444-7 Revised 10-07

Revised 10-07 millimeters unless otherwise specified. Values in brackets are metric equivalents.

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

## **Double Drawer Connector Pin Side Layout Form**

#### **Pin Assembly**

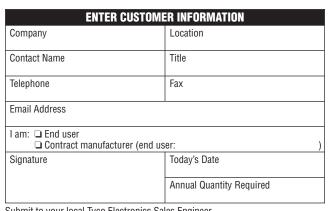
G1

- 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.

G2

Pin Connector (Rear Face)

Pin Contact Insertion Side Pin Connector Rear Face Cavity Identification



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	
	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	
#U	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	
<i>π</i> <b>∠</b> 0	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	
<b>π1</b> Ζ	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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#### **Top Assembly Part Number** Assigned by Tyco Electronics

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G3

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

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

G4

#12HP

Size #12 or

Size #0

Size #12 or #12HF

Size #20

## **Double Drawer Connector Socket Side Layout Form**

#### **Socket Assembly**

G2

- 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.
- 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.

G1

Size #0

Size #12 or #12HP

Size #20

Size #12 or #12HP

Socket Connector (Rear Face)

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification

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

Submit to your local Tyco Electronics Sales Engineer.

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)	

Size	Re	f.	Part Number	Termination Style & Pin Length	Qty.
	А	=	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	
#U	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	
	Κ	=	6648431-1	Probe Proof, M6 x 1 External Thread	
	L	=	1648325-1	Crimp	
#20	Μ	=	6648301-1	Compliant Press-fit	
	Ν	=	1648382-1	PCB Tail	
	Р	=	6648318-1	Crimp	
#12	Q	=	6648304-1	Compliant Press-fit	
	R	=	6648374-1	PCB Tail	
#40 U.s.	S	=	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	Т	=	6648305-1	Compliant Press-fit, Hot Plug	
riuy	U	=	1648387-1	PCB Tail, Hot Plug	

 $\operatorname{Crimp}$  and  $\operatorname{Threaded}$  contacts are removable. Press-fit and PCB tail contacts are non-removable.

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

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Top Assembly Part Number Assigned by Tyco Electronics

G3

Dimensions are in inches and

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millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

www.tycoelectronics.com

## **DualPower Drawer Connector Pin Side Layout Form**

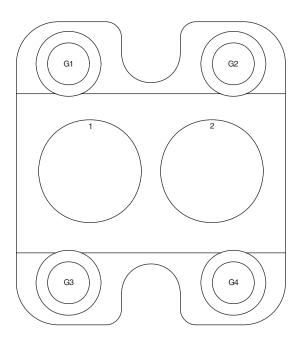
#### **Pin Assembly**

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

ENTER CUSTOMER INFORMATION				
Company	Location			
Contact Name	Title			
Telephone	Fax			
Email Address				
I am: D End user D 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



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

Contacts are removable.

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

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

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

# Tyco Electronics

## **DualPower Drawer Connector Socket Side Layout Form**

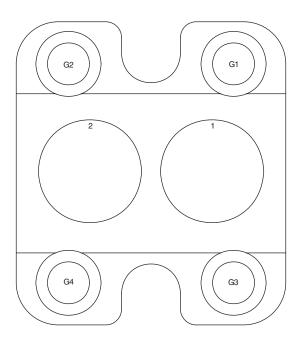
#### Socket Assembly

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

ENTER CUSTOMER INFORMATION				
Company	Location			
Contact Name	Title			
Telephone	Fax			
Email Address				
I am: D 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



Top Assembly Part Number Assigned by Tyco Electronics

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

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

Contacts are removable.

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

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## **QuadPower Drawer Connector Pin Side Layout Form**

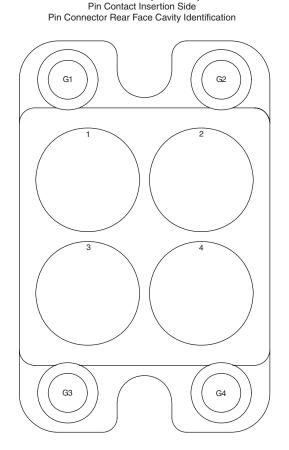
#### **Pin Assembly**

- 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.

Pin Connector (Rear Face)

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

Submit to your local Tyco Electronics Sales Engineer.



Pin Housing Selection Menu		
Part Number Description		One
1648548-1	3548-1 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	
	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	
π0	F =	1766275-1	Probe Proof, M6 x 1 Internal Thread	
	G =	1766268-1	1/4-20 External Thread	
	Η =	1766231-1	M6 x 1 External Thread	
	J =	1766270-1	Probe Proof, 1/4-20 External Thread	
	K =	1766276-1	Probe Proof, M6 x 1 External Thread	

Contacts are removable.

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

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

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Catalog 6-1773444-7 Revised 10-07

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Dimensions are in inches and

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

## **QuadPower Drawer Connector Socket Side Layout Form**

#### Socket Assembly

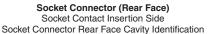
Electronics

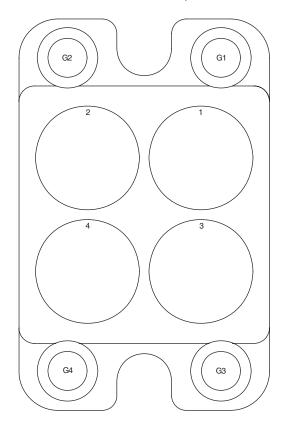
**₹** Tyco

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

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

Submit to your local Tyco Electronics Sales Engineer.





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	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	6648405-1	Crimp	
	B =	6648418-1	Probe Proof, crimp	
	C =	6648416-1	1/4-20 Internal Thread	
	D =	6648428-1	M6 x 1 Internal Thread	
#0	E =	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	
	H =	6648430-1	M6 x 1 External Thread	
	J =	6648420-1	Probe Proof, 1/4-20 External Thread	
	K =	6648431-1	Probe Proof, M6 x 1 External Thread	

Contacts are removable.

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

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

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

#### **Pin Assembly**

Тусо

Electronics

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

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: D End user D Contract manufacturer (end us	er: )		
Signature	Today's Date		
	Annual Quantity Required		

**Pin Housing Part Number** 1651493-1

Submit to your local Tyco Electronics Sales Engineer.

3	
2	

in Contact Selection Menu				
Ref		Part Number	Termination Style & Pin Length	Qty.
A	=	1766811-1	Crimp	
В	=	1766819-1	Probe Proof, crimp	
С	=	1766230-1	1/4-20 Internal Thread	
D	=	1766274-1	M6 x 1 Internal Thread	
E	=	1766269-1	Probe Proof, 1/4-20 Internal Thread	
F	=	1766275-1	Probe Proof, M6 x 1 Internal Thread	
G	=	1766268-1	1/4-20 External Thread	
Н	=	1766231-1	M6 x 1 External Thread	
J	=	1766270-1	Probe Proof, 1/4-20 External Thread	
	Ref A B C D E F G	Ref.           A         =           B         =           C         =           D         =           E         =           F         =           G         =	Ref.         Part Number           A         =         1766811-1           B         =         1766219-1           C         =         1766230-1           D         =         1766274-1           E         =         1766269-1           F         =         1766275-1           G         =         1766268-1           H         =         1766231-1	Ref.         Part Number         Termination Style & Pin Length           A         =         1766811-1         Crimp           B         =         1766819-1         Probe Proof, crimp           C         =         1766230-1         1/4-20 Internal Thread           D         =         1766274-1         M6 x 1 Internal Thread           E         =         1766269-1         Probe Proof, 1/4-20 Internal Thread           F         =         1766275-1         Probe Proof, M6 x 1 Internal Thread           G         =         176628-1         1/4-20 External Thread           H         =         1766231-1         M6 x 1 External Thread

Probe Proof, M6 x 1 External Thread

Κ Contacts are removable.

=

1766276-1

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

Catalog 6-1773444-7 Revised 10-07

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

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

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

#### **Socket Assembly**

Тусо

Electronics

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

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

ENTER C	USTOMER INFORMATION
Company	Location
Contact Name	Title
Telephone	Fax
Email Address	
I am: 🗅 End user 🗅 Contract manufacture	er (end user:
Signature	Today's Date
	Annual Quantity Required

Submit to your local Tyco Electronics Sales Engineer.

Socket Housing Part Number 1651404-1

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

Contacts are removable.

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

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Top Assembly Part Number Assigned by Tyco Electronics

Dimensions are in inches and

Catalog 6-1773444-7 Revised 10-07

7 millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

www.tycoelectronics.com

## W5 Power Drawer Connector Pin Side Layout Form

#### **Pin Assembly**

₹тусо

Electronics

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

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: D End user Contract manufacturer (end us	er: )		
Signature	Today's Date		
	Annual Quantity Required		

Submit to your local Tyco Electronics Sales Engineer.

Pin Housing Part Number	
6651457-1	

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

Contacts are removable.

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

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

28

Catalog 6-1773444-7 Revised 10-07

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

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## W5 Power Drawer Connector Socket Side Layout Form

#### **Socket Assembly**

Electronics

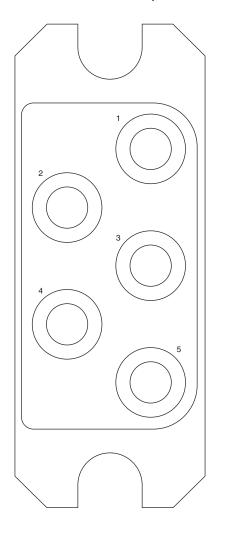
₹тусо

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

Contacts are removable.

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

Top Assembly Part Number Assigned by Tyco Electronics

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Catalog 6-1773444-7 Revised 10-07

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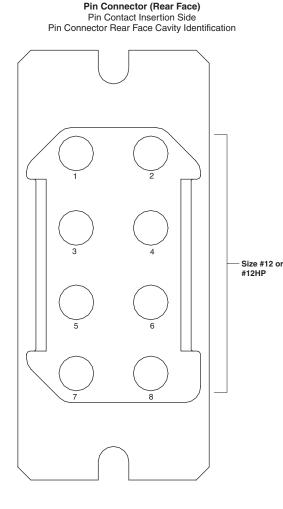
## HV8P Drawer Connector Pin Side Layout Form

#### **Pin Assembly**

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

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

Submit to your local Tyco Electronics Sales Engineer.



Pin Housing Part Number	
1648127-1 = Fixed Mount	

Pin Contact Selection 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		
	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

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Dimensions are in inches and

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## **HV8P Drawer Connector Socket Side Layout Form**

#### **Socket Assembly**

Electronics

**₹** Tyco

- 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.

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

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

Submit to your local Tyco Electronics Sales Engineer.

	Size #12 or #12HP

Socket Housing Part Number 1648128-1 = Float Mount

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 U.J	D =	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	E =	6648305-1	Compliant Press-fit, Hot Plug	
riuy	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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Dimensions are in inches and

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## P10S0 Drawer Connector Pin Side Layout Form

#### **Pin Assembly**

₹<sub>Tyco</sub>

Electronics

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

Pin Connector (Rear Face)



Submit to your local Tyco Electronics Sales Engineer.

Pin Contact Insertion Side Pin Connector Rear Face Cavity Identification Size #12 or #12HP

Pin Housing Part Number 1648568-1

Pin Conta	Pin Contact Selection 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		
π12	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	Η =	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		

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Top Assembly Part Number Assigned by Tyco Electronics

32

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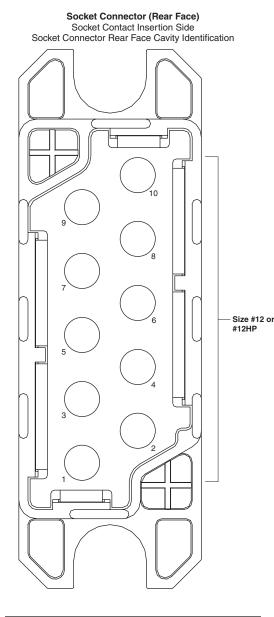
## P10S0 Drawer Connector Socket Side Layout Form

#### **Socket Assembly**

Electronics

**₹** Tyco

- 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				
Location				
Title				
Fax				
er (end user:				
Today's Date				

Submit to your local Tyco Electronics Sales Engineer.

Socket Housing Part Number 1648596-1

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

Catalog 6-1773444-7 Revised 10-07

www.tycoelectronics.com specifie are met

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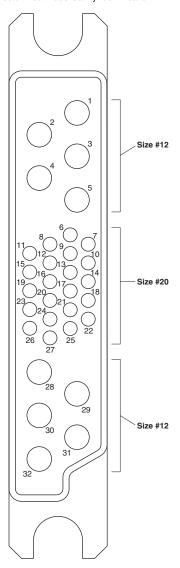
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## P10S22 Drawer Connector Pin Side Layout Form

#### **Pin Assembly**

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





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

Submit to your local Tyco Electronics Sales Engineer.

Pin Housing Part Number	
1648211-1	

Pin Contact Selection Menu					
Size	Re	f.	Part Number	Termination Style & Pin Length	Qty.
	А	=	1650155-1	Crimp, standard	
	В	=	1650161-1	Crimp, premate	
#20	С	=	1650162-2	Crimp, postmate	
π20	D	=	1650283-1	PCB tail, standard	
	Е	=	1650065-1	PCB tail, premate	
	F	=	1650226-1	PCB tail, postmate	
	G	=	1766193-1	Crimp, standard	
	Н	=	1766195-1	Crimp, premate	
#12	J	=	1766196-1	Crimp, postmate	
π12	Κ	=	1766245-1	PCB tail, standard	
	L	=	1766250-1	PCB tail, premate	
	Μ	=	1766249-1	PCB tail, postmate	
	Ν	=	1650153-2	Crimp, standard, Hot Plug	
#12 Hot	Ρ	=	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			

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

34

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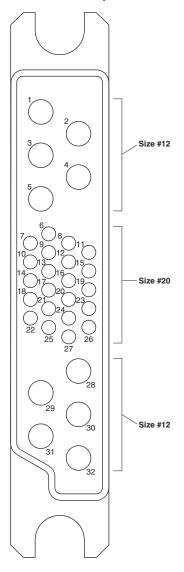
## Tyco Electronics

## 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.





ENTER CUSTOMER INFORMATION				
Company	Location			
Contact Name	Title			
Telephone	Fax			
Email Address				
I am: D End user Contract manufacturer (e	nd user: )			
Signature	Today's Date			
	Annual Quantity Required			

Submit to your local Tyco Electronics Sales Engineer.

Socket Housing Part Number 1648212-1

Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1648325-1	Crimp	
<b>#20</b>	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	
	G =	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	H =	6648305-1	Compliant Press-fit, Hot Plug	
riuy	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

Catalog 6-1773444-7 Revised 10-07

www.tycoelectronics.com specified are metro

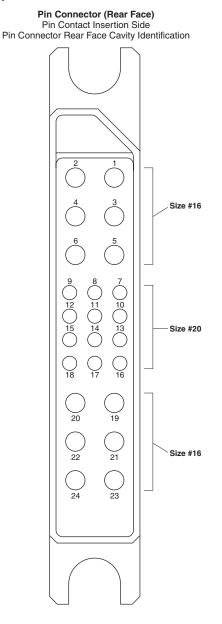
Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

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## P12S12 Drawer Connector Pin Side Layout Form

#### **Pin Assembly**

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



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 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	
π20	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	

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

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

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

36

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Dimensions are in inches and

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## P12S12 Drawer Connector Socket Side Layout Form

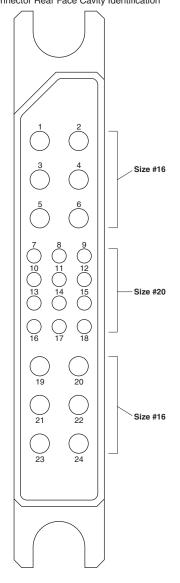
#### **Socket Assembly**

Electronics

**₹** Tyco

- 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.





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

Submit to your local Tyco Electronics Sales Engineer.

Socket Housing Part Number 1651203-1

Socket Contact Selection Menu				
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1648325-1	Crimp	
#20	B =	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

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

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

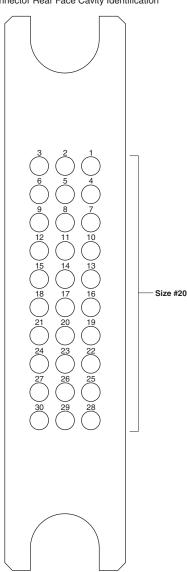
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## **POS30 Drawer Connector Pin Side Layout Form**

#### **Pin Assembly**

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





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 Housing Part Number 6651204-1

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

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

Dimensions are in inches and

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Catalog 6-1773444-7 Revised 10-07

Revised 10-07 millimeters unless otherwise specified. Values in brackets are metric equivalents.

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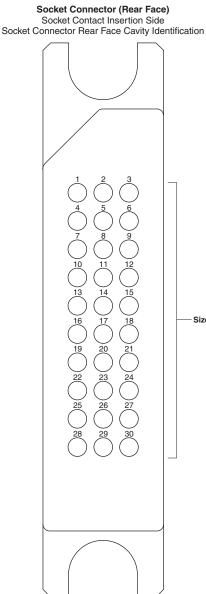
## P0S30 Drawer Connector Socket Side Layout Form

#### Socket Assembly

Electronics

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



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

Submit to your local Tyco Electronics Sales Engineer.

Socket Housing Part Number	
6651205-1	

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

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

Size #20

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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