

AMP & ELCON Power Connector Layout Forms







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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 Flo	pating Parising Paris
Receptacle (Vertical Shown) Electrically Hot	Slide-to-Lock		Squeez Release	
To create a unique configuration for MULTI-BEAM XL Connector	ors simply comp	lete this worksheet ar	nd forward it to your	Tyco Electronics sales engineer.
1. Application Board-to-Board			Cable-to-Bo	ard
2. Gender Plug (Male)			Receptacle	
	d Mate specif t Angle	y Floating or Slid [e-to-Lock recep Vertical	tacle Latching
4. Termination (Cable Only) Power 8 AWG Signal 22 AWG		10 AWG 24 AWG	12 AW	
Sold	ler tail .135″ [ler tail .165″ [Press-Fit .12 Press-Fit .13 Press-Fit .16	5″ [3.43mm]
6. Mounting to PCB	inting holes (•	-	
Enter the p	osition(s) to	•	_	Power Contacts) (Receptacles only)
	.200" [5.08m .250" [6.35m .300" [7.62m	m] (HDP) m] (P)		
Enter the P	ositions with	cts (Multiples of 8 Post-Mate Contact d (i.e. A1, A3, etc	cts (Mate-Last-Bi	.e. 16, 24, 32) reak-First, Plugs only)
Section C: (Power Contacts) Enter # of Enter the p	Power Conta	cts (Loaded with	standard length	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	TYCO 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							
I am: 🗅 End user 🗅 Contract manufacturer (end us	er:						
Signature	Today's Date						
	Annual Quantity Required						

1.	AC INPUT ☐ No AC input required	□ 125 VAC spa	acing	⊒ 250 VAC spacing			
2.	SIGNAL CONTACTS						
	■ No signal contacts required	6 contacts	□ 24 contacts	s 🖵 30 contacts	Other:		
	☐ Signal seguencing 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)	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)					
	$\hfill\Box$ 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.						
	3,3						
	□ 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	eer:)							
Signature	Today's Date							
	Annual Quantity Required							

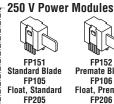
Write the "FP" numbers to indicate the layout of one half of the connector assembly, matching the left to right order with the mating face view of the connector (right angle assembly tails facing downwards)

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





Float. Premate

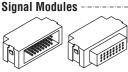
FP206



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



Spacer, 250 V 24-Pin. Press-fit



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



600 V Power Modules



FP155 Standard Blade Float, Standard FP221



Premate Blade FP122 Float, Premate FP222 Hot Plug, Press-fit Hot Plug, Press-fit Hot Plug, Press-fit



FP157 Postmate Blade Finat, Postmate FP223



Spacer, 600 V Hot Plug Socket FP220 Hot Plug Press-fit

Mounts



FP500 FP501 Right Flange Mount

Signal Modules

Guides



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, 250 V

FP513

FP300 24-Pin

FP400

24-Pin Socket 24-Pin. Press-fit 24-Pin Skt. Press-fit FP301 24-Pin Skt, 3A Rated FP401 24-Pin Skt, 3A, Press-fit

FP318



6-Pin FP412 Press-fit

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

600 V Power Modules



FP154 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



FP166 Premate Blade FP118 Float. Premate FP218 Hot Plug, Press-fit



FP167 Postmate Blade Spacer, 600 V FP119 Finat, Postmate FP219 Hot Plug, Press-fit

Mounts



FP500 FP501 Left Flange ight Flange Mount Mount



Guides

FP502 Straight Passive



FP517 Active, 4-40

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Catalog 6-1773444-7 Revised 10-07

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

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

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

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



Mini Drawer Connector Pin Side Layout Form

Pin Assembly

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

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

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	

Pin Conta	act Sel	lection 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	
πΖυ	D =	1650283-1	PCB tail, standard	
	E =	1650065-1	PCB tail, premate	
	F =	1650226-1	PCB tail, postmate	
	G =	1766194-1	Crimp, standard	
	Н =	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	
#12	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	



Mini Drawer Connector Socket Side Layout Form

Socket Assembly

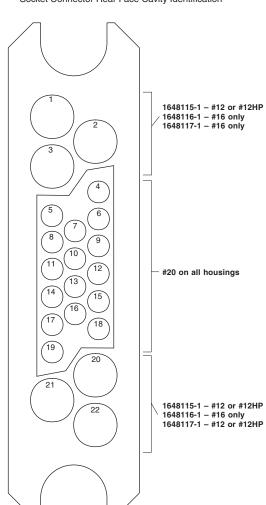
- 1. Choose one housing from the Socket Housing Selection Menu table.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. PCB tail contacts are installed by Tyco 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	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



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 Identification

Pin Contact Insertion Pin Connector Rear Face Cavit	
	1648203-1 - #12 or #12HP 1648204-1 - #16 only 1648205-1 - #16 only
$\begin{array}{c c} \hline 1 & \hline 2 \\ \hline \hline 3 & \hline 4 \\ \hline \end{array}$	
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
28 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 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 S	ele	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	
π20	D	=	1650283-1	PCB tail, standard	
	Е	=	1650065-1	PCB tail, premate	
	F	=	1650226-1	PCB tail, postmate	
	G	=	1766194-1	Crimp, standard	
	Н	=	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	
	Р	=	1766195-1	Crimp, premate	
#12	Q	=	1766196-1	Crimp, postmate	
π12	R	=	1766245-1	PCB tail, standard	
	S	=	1766250-1	PCB tail, premate	
	Τ	=	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 Sh	oulder 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

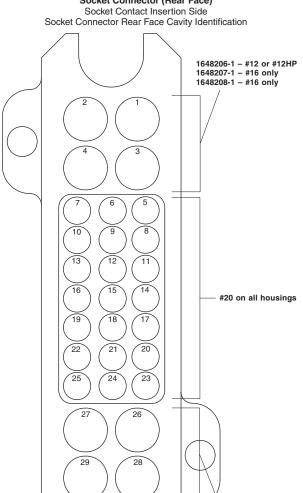
Socket Assembly

- 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 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				

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	ct	Selection Me	nu	
Size	Ref		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 !! !	K	=	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	L	=	6648305-1	Compliant Press-fit, Hot Plug	
Fluy	M	=	1648387-1	PCB Tail, Hot Plug	

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

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

Top Assembly Part Number Assigned by Tyco Electronics

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1648206-1 - #12 or #12HP 1648207-1 - #16 only 1648208-1 - #12 or #12HP



75A Middle Drawer Connector Pin Side Layout Form

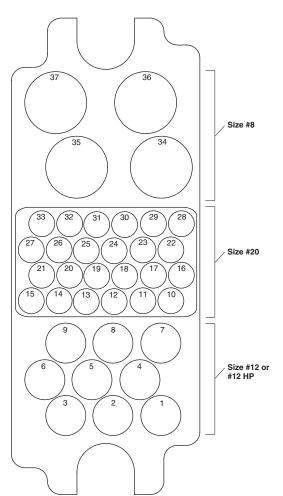
Pin Assembly

- 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	Email Address					
l am: □ End user □ Contract manufacturer (end us	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



Pin Housing Selection Menu			
Part Number Description			
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



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

36 37 35 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 1 1 2 3	Size #12 or #12 HP

Socket Housing Selection Menu			
Part Number	Description	One	
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	Ε	=	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 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

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125A Middle Drawer Connector Pin Side Layout Form

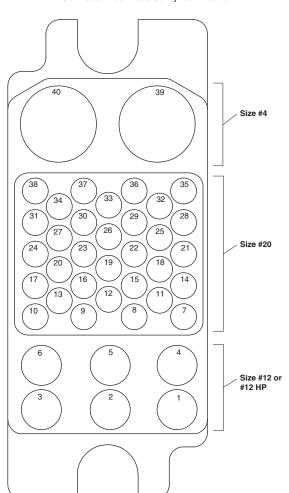
Pin Assembly

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

ENTER 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.

Pi	n Connector (Rear Face)
F	Pin Contact Insertion Side
Pin Conne	ctor Rear Face Cavity Identification



Pin Housing Selection Menu				
Part Number	Description	One		
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	
πΔΟ	H =	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

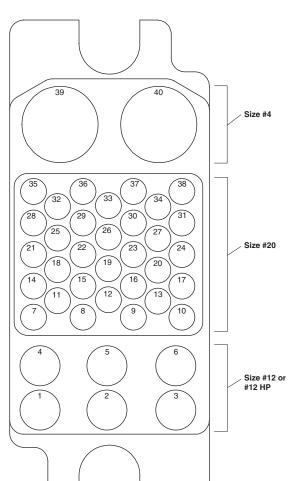
- 1. Choose one housing from the Socket Housing Selection Menu table.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed 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 CUSTOM	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 Selection Menu			
Part Number	Part Number Description		
1648156-1	Float Mount for Crimp Contacts		
1648157-1	PCB Mount for PCB Tail and Press-fit Contacts		

Socket C	onta	ict	Selection Me	nu	
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	Е	=	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	
riuy	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

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200A Middle Drawer Connector Pin Side Layout Form

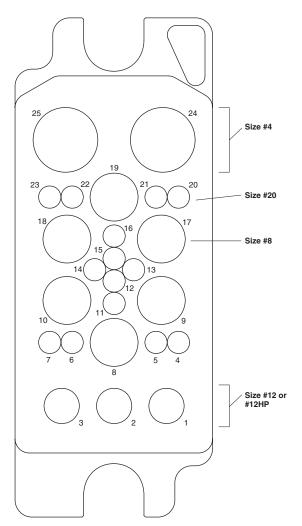
Pin Assembly

- 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	el	ection Menu		
Size	Ref	f.	Part Number	Termination Style & Pin Length	Qty.
#4	Α	=	1766232-1	Crimp, standard	
π4	В	=	1766812-1	1/4-20 External Thread	
#8	С	=	1766192-1	Crimp, standard	
πυ	D	=	1766197-1	Crimp, premate	
	Ε	=	1650155-1	Crimp, standard	
	F	=	1650161-1	Crimp, premate	
#20	G	=	1650162-2	Crimp, postmate	
#20	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	
#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	
	٧	=	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

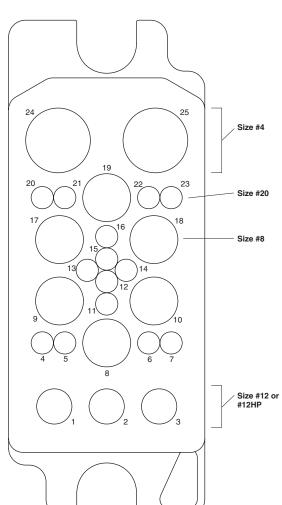
- 1. Enter company and contact information (at right).
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed by Tyco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

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification

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 Housing Part Number 1648135-1

Socket C	ontac	t	Selection Me	nu	
Size	Ref.		Part Number	Termination Style & Pin Length	Qty.
#4	Α =	=	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	
#20	F =	=	1648382-1	PCB Tail	
#12	G =	=	6648318-1	Crimp	
#12	Н =	=	6648374-1	PCB Tail	
#12 Hot	J =	=	1648384-1	Crimp, Hot Plug	
Plug	Κ =	=	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

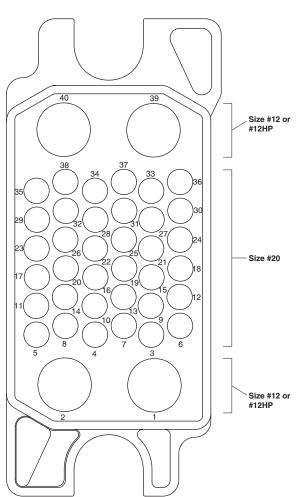
Pin Assembly

- 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 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 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

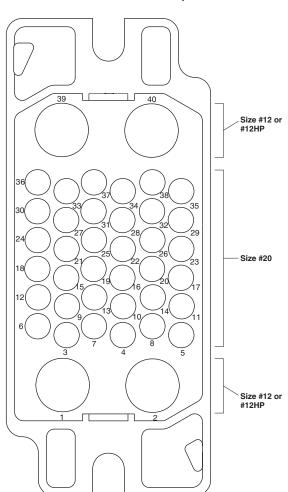
- 1. Enter company and contact information (at right).
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco 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 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 Part Number

1648133-1 = Fixed Mount only

Socket C	ontact	Selection Me	nu	
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 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 Connector Rear Face Cavity Identificat

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
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	
πΔυ	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 Mount Sho	oulder 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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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
40 39 38 37 36 35 46 45 44 43 42 41	Size #16
49 48 47	Size #12 or #12HP
52 51 50	
G3 G3	

Top Assembly Part Number Assigned by Tyco Electronics

ENTER CUSTOMI	ER 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 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	ontact	Selection Me	nu	
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	6648405-1	Crimp	
	В =	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	
	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	
	P =	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	
ı iuy	X =	1648387-1	PCB Tail, Hot Plug	

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

Float Mount Sh	oulder 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 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 Con	nector (Rear Face)
Pin Cor	ntact Insertion Side
Pin Connector Re	ear Face Cavity Identification

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
13 14 15 16 17 18 19 20 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

Pin Housing Selection Menu		Chec
Part Number Description		
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	
πιΖ	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	



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 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
ocket Connector Rear Face Cavity Identific

Socket Connector (Rear 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 36 35 34 33 32 31 30 29	Jaze #20
39 38 37	Size #12 or #12HP
G3 G3	

Top Assembly Part Number Assigned by Tyco Electronics

Socket Housing Selection Menu		Check
Part Number Description		
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	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	
	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 11-4	S	=	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	T	=	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

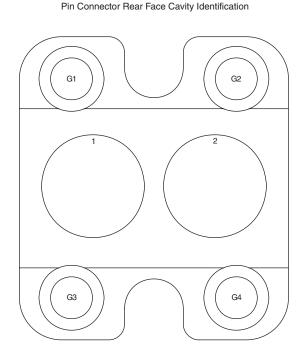
Pin Assembly

- 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.
- 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 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



Top Asse	embly	Part N	umber
Assigned	by Ty	co Elec	tronics

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

Pin Contact Selection Menu				
Size	Ref. Part Numbe		Termination Style & Pin Length	
	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	
	H =	1766231-1	M6 x 1 External Thread	
	J =	1766270-1	Probe Proof, 1/4-20 External Thread	
	K =	1766276-1	Probe Proof, M6 x 1 External Thread	

Contacts are removable.

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



DualPower Drawer Connector Socket Side Layout Form

Socket Assembly

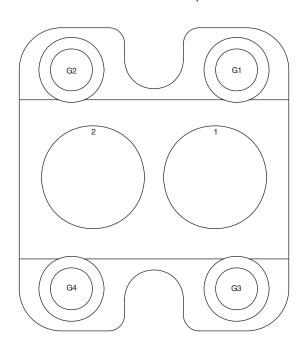
- Choose one housing from the Socket Housing Selection Menu table.
 Place an X in the appropriate guide pin circles, if guide pins are required.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp 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	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		
Part Number Description		
1648575-1	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.
	Α	=	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	
	Е	=	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	
	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 Sho	oulder 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

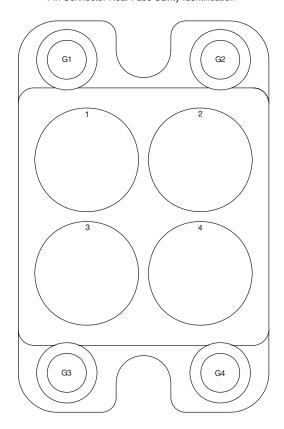
Pin Assembly

- 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 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		
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	
#0	D =	1766274-1	M6 x 1 Internal Thread	
	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

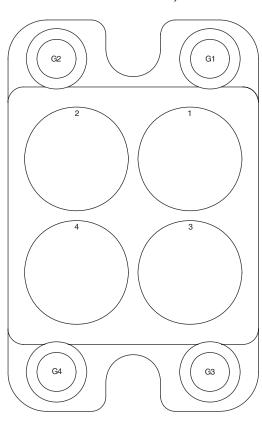
- Choose one housing from the Socket Housing Selection Menu table.
 Place an X in the appropriate guide pin circles, if guide pins are required.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp 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					
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



TOP ASSE	emp	ny Pa	irt Nu	ımber
Assigned	by	Tyco	Elect	tronics

Socket Housin	g 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

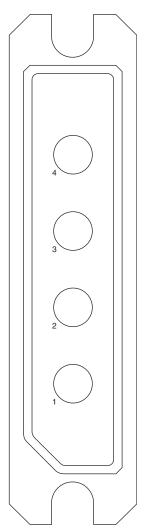
Pin Assembly

- 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					
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 1651493-1

Pin Contact Selection Menu					
Size	Ref.		Part Number	Termination Style & Pin Length	Qty.
	Α	=	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	
#0	Е	=	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

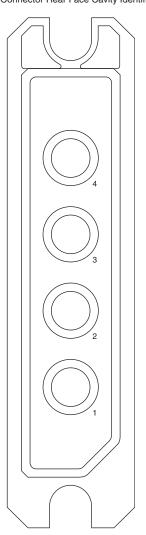
Socket Assembly

- 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 Connector Rear Face Cavity Identification



Socket Housing Part Number 1651404-1

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	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	

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

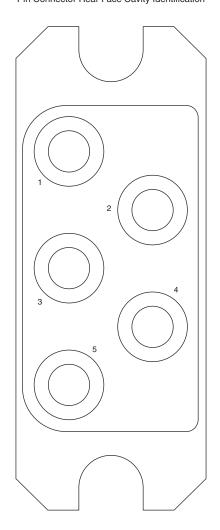
Pin Assembly

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

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

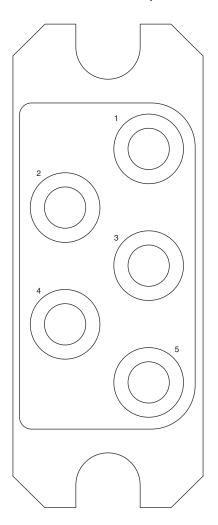
- 1. Enter company and contact information (at right).
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Threaded contacts are installed by Tyco Electronics;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

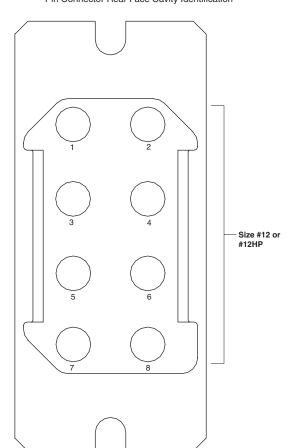
Pin Assembly

- 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				
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	Ho	ousi	ng	Par	t I	N	umt	er
			-			_	_	

1648127-1 = Fixed Mount

Pin Conta	act Sel	ection 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	
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	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.

Top Assembly Part Number Assigned by Tyco Electronics



HV8P Drawer Connector Socket Side Layout Form

Socket Assembly

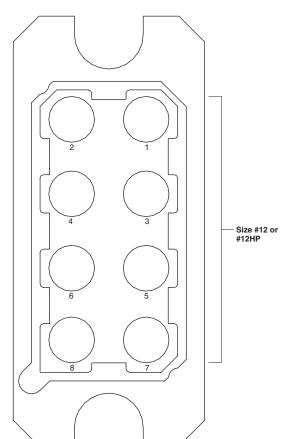
- 1. Enter company and contact information (at right).
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco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

1648128-1 = Float Mount

Socket C	ontact	t Selection Me	nu	
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	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



P10S0 Drawer Connector Pin Side Layout Form

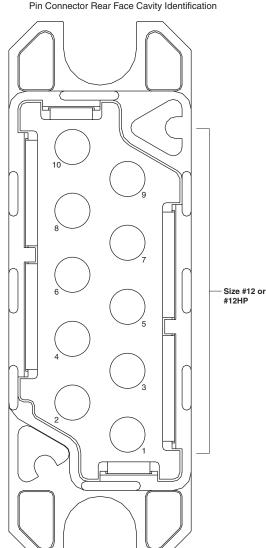
Pin Assembly

- 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 us	eer:			
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

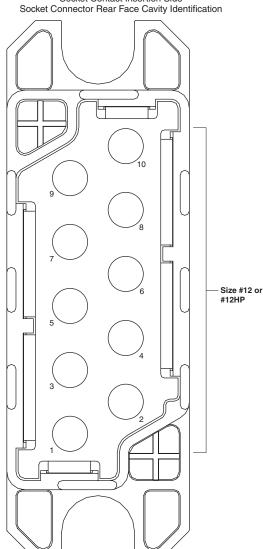
- 1. Enter company and contact information (at right).
- 2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by 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			
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 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	
riug	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



P10S22 Drawer Connector Pin Side Layout Form

Pin Assembly

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

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

ENTER CUSTOWIEK INFURMATION			
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.			

Size #12
Size #12

Pin Housing Part Number 1648211-1

Pin Contact Selection Menu				
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	Α =	1650155-1	Crimp, standard	
	В =	1650161-1	Crimp, premate	
#20	C =	1650162-2	Crimp, postmate	
πΔυ	D =	1650283-1	PCB tail, standard	
	E =	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	
#12	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



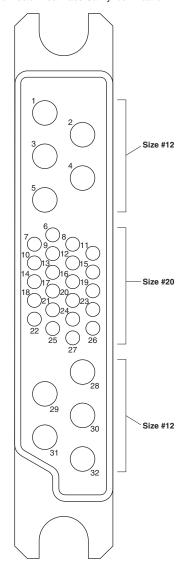
P10S22 Drawer Connector Socket Side Layout Form

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.

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			
l 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 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	
ı iuy	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

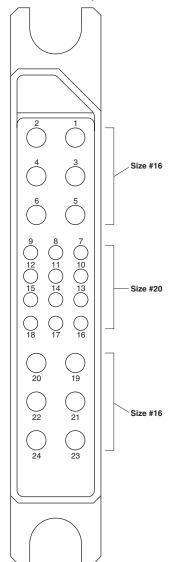


P12S12 Drawer Connector Pin Side Layout Form

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					
l 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.
	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	
	G	=	1766194-1	Crimp, standard	
	Н	=	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	

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



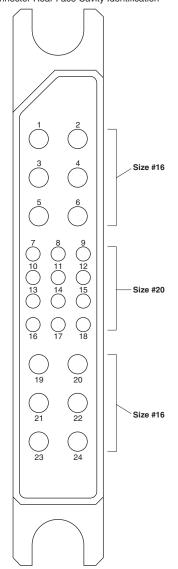
P12S12 Drawer Connector Socket Side Layout Form

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	(Rear	Face)	

Socket Contact Insertion Side
Socket 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.

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

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POS30 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. 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	ser:)				
Signature	Today's Date				
	Annual Quantity Required				

Submit to your local Tyco Electronics Sales Engineer.

nned	tor Rear Face Cavity	Identification
	3 2 1 6 5 4 9 8 7 12 11 10 15 14 13 18 17 16 21 20 19 24 23 22 27 26 25 30 29 28 30 29 28	

Pin Housing Part Number 6651204-1

Pin Contact Selection 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	
#ZU	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



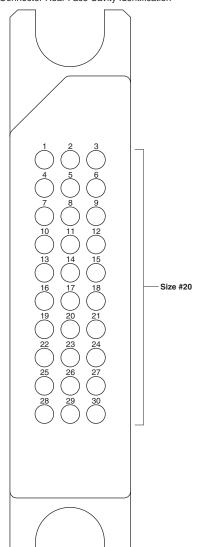
POS30 Drawer Connector Socket Side Layout Form

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			
l 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

6651205-1

Socket C	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	

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

