

AMP & ELCON Power Connector Layout Forms







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Restriction on the use of Hazardous Substances (RoHS)

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

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

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

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

Getting the Information You Need

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

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





MULTI-BEAM XL Custom Connector Worksheet

PCB Mount	Cable Mount		Plugs	Dramo					
Hold Down	XYZ Floating		XYZ Floating						
Header/Plug (Right Angle Shown) C RESERVA N 3 2 1 N 3 4 3 2 1 Receptacle (Vertical Shown) Electrically Hot	Slide-to-Lock		Squeeze-to- Release						
To create a unique configuration for MULTI-BEAM XL Connector	ors simply compl	ete this worksheet and f		lectronics sales engineer.					
1. Application Board-to-Board			Cable-to-Board						
2. Gender	d Mata anasif	. Flaction or Clida t	Receptacle (Fema						
	a Mate specir nt Angle	y Floating or Slide-t	Vertical	Latching					
4. Termination (Cable Only) Power 8 AWG Signal 22 AWG		10 AWG 24 AWG	☐ 12 AWG ☐ 26 AWG	☐ 14 AWG					
5. Termination Style (PCB Only) Sold	ler tail .135" [3.43mm]	Press-Fit .120" [3.	05mm]					
Sold	ler tail .165" [4.19mm]	Press-Fit .135" [3.	-					
			Press-Fit .165" [4.	19mm]					
6. Mounting to PCB Hold Downs (one or	,	A + - +	wiselet a seel a seesses	stava andri)					
.122″ [3.10mm] Mou .150″ [3.81mm] Mou		-							
7. Select # of Contacts	ariting rioles (Accepts #0 screws,	Tigrit arigie cominec	tors orny)					
Section A: (Power Contacts) Enter # of Enter the p	position(s) to	cts (Loaded with state to loaded with Pre- (i.e. #1,#3, etc.)							
Contact Centerline Spacings:	.200" [5.08m .250" [6.35m	m] (HDP) m] (P)							
Section B: (Signal Contacts) Enter # of Enter the F	Positions with I	cts (Multiples of 8 a Post-Mate Contacts							
Section C: (Power Contacts) Enter # of Enter the p	Note: Row A is standard (i.e. A1, A3, etc.) Section C: (Power Contacts) Enter # of Power Contacts (Loaded with standard length Power Contacts) Enter the positions to be loaded with Pre-Mate Contacts (Receptacles only) (Mate-First-Break-Last, i.e. #1, #3, etc.)								
Contact Centerline Spacings:	.200" [5.08m .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)			XL, TE LOGO and TYCO E	LECTRONICS 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 user:								
Signature	Today's Date							
	Annual Quantity Required							

1.	AC INPUT ☐ No AC input required	☐ 125 VAC spacing			50 VAC spacing		
2.	SIGNAL CONTACTS						
	☐ No signal contacts required	6 contacts	☐ 24 contac	ts	30 contacts	☐ Other:	
	☐ Signal sequencing required (two pin lengths available; write requirements under NOTES below.)						

3. DC INPUT/OUTPUT

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

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

4. BOARD MOUNTING STYLE

	Straight Socket (choose one)	Right Angle Blade (choose one)
	☐ Short solder tail (.062" thick boards)	☐ Short solder tail (for .062" thick boards)
	☐ Long solder tail (.093/.125" thick boards)	☐ Long solder tail (.093/.125" thick boards)
	☐ Compliant press-fit tails (.093" min. thick board recommended)	
5.	OTHER REQUIREMENTS	NOTES:
	☐ Alignment guides required	
	☐ Connector length restriction, if any: " (mm)	
	For further clarity you can attach a glotal to this form if necessary.	
	For further clarity, you can attach a sketch to this form if necessary.	
	☐ Sketch attached: pages	
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	co Electronics Corporation.	

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FLATPAQ Connector Layout Form

Instructions

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

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

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

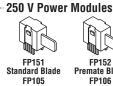
Write the "FP" numbers to indicate the layout of one half of the connector assembly, matching the left to right order with the mating face view of the connector (right angle assembly tails facing downwards)

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

Right Angle Mount



FP152 Premate Blade FP106 Float. Premate



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



FP512 Spacer, 250 V





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



600 V Power Modules



FP205

FP155 Standard Blade Float, Standard FP221



FP206

Hot Plug, Press-fit Hot Plug, Press-fit Hot Plug, Press-fit

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



FP207

FP157 Postmate Blade Finat, Postmate FP223



FP120 Spacer, 600 V Hot Plug Socket FP220 Hot Plug Press-fit

Mounts



24-Pin. Press-fit

FP500 FP501 Right Flange Mount

Signal Modules

Guides





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



Standard Blade FP101 Float, Standard FP201



FP162 **Premate Blade** FP102 Float. Premate FP202 Hot Plug



Postmate Blade FP103 Float, Postmate FP203 Hot Plug

FP167

FP119

FP219



Spacer, 250 V

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



FP313 6-Pin 6-Pin Socket 3A rated FP412 FP413 Press-fit 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 Postmate Blade FP118 Float. Premate Finat, Postmate FP218 Hot Plug, Press-fit Hot Plug, Press-fit



FP513 Spacer, 600 V Mounts



FP500 FP501 Left Flange ight Flange Mount Mount

Guides

FP502 Straight Passive

Straight Guide Pins FP503 Passive FP515 Active, M3

FP517 Active, 4-40

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Mini Drawer Connector Pin Side Layout Form

Pin Assembly

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

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

Submit to your local Tyco Electronics Sales Engineer.

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

	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	mb	ly Pa	rt Number
Assigned	by '	Tyco	Electronics

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	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	
πΔυ	D =	1650283-1	PCB tail, standard	
	E =	1650065-1	PCB tail, premate	
	F =	1650226-1	PCB tail, postmate	
	G =	1766194-1	Crimp, standard	
	H =	1766198-1	Crimp, premate	
#16	J =	1766199-1	Crimp, postmate	
πιο	K =	1766222-1	PCB tail, standard	
	L =	1766223-1	PCB tail, premate	
	M =	1766818-1	PCB tail, postmate	
	N =	1766193-1	Crimp, standard	
	P =	1766195-1	Crimp, premate	
#12	Q =	1766196-1	Crimp, postmate	
π12	R =	1766245-1	PCB tail, standard	
	S =	1766250-1	PCB tail, premate	
	T =	1766249-1	PCB tail, postmate	
	U =	1650153-2	Crimp, standard, Hot Plug	
#12 Hot	V =	1650156-2	Crimp, premate, Hot Plug	
Plug	W =	1650060-2	PCB tail, standard, Hot Plug	
	X =	1650074-3	PCB tail, premate, Hot Plug	

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

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



Mini Drawer Connector Socket Side Layout Form

Socket Assembly

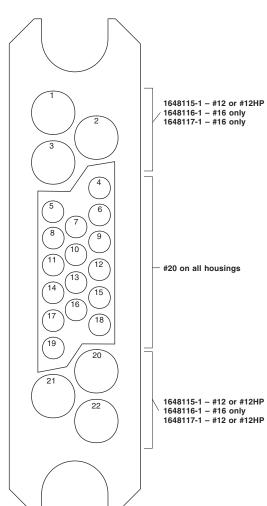
- 1. Choose one housing from the Socket Housing Selection Menu table.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. PCB tail contacts are installed by Tyco 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 !! !	K	=	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	Ĺ	=	6648305-1	Compliant Press-fit, Hot Plug	
riuy	М	=	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 Cavi	
	1648203-1 - #12 or #12HP 1648204-1 - #16 only 1648205-1 - #16 only
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	— #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 S	election Menu	Check
Part Number	Description	One
1648203-1	#12, #20, #12 Pin Housing, Float or Fixed Mounting	
1648204-1	#16, #20, #16 Pin Housing, Float or Fixed Mounting	
1648205-1	#16, #20, #12 Pin Housing, Float or Fixed Mounting	

Pin Conta	act Sel	ection Menu		
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1650155-1	Crimp, standard	
	B =	1650161-1	Crimp, premate	
#20	C =	1650162-2	Crimp, postmate	
πΔυ	D =	1650283-1	PCB tail, standard	
	E =	1650065-1	PCB tail, premate	
	F =	1650226-1	PCB tail, postmate	
	G =	1766194-1	Crimp, standard	
	H =	1766198-1	Crimp, premate	
#16	J =	1766199-1	Crimp, postmate	
πιο	K =	1766222-1	PCB tail, standard	
	L =	1766223-1	PCB tail, premate	
	M =	1766818-1	PCB tail, postmate	
	N =	1766193-1	Crimp, standard	
	P =	1766195-1	Crimp, premate	
#12	Q =	1766196-1	Crimp, postmate	
π12	R =	1766245-1	PCB tail, standard	
	S =	1766250-1	PCB tail, premate	
	T =	1766249-1	PCB tail, postmate	
	U =	1650153-2	Crimp, standard, Hot Plug	
#12 Hot	V =	1650156-2	Crimp, premate, Hot Plug	
Plug	W =	1650060-2	PCB tail, standard, Hot Plug	
	X =	1650074-3	PCB tail, premate, Hot Plug	

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

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



Lower Drawer Connector Socket Side Layout Form

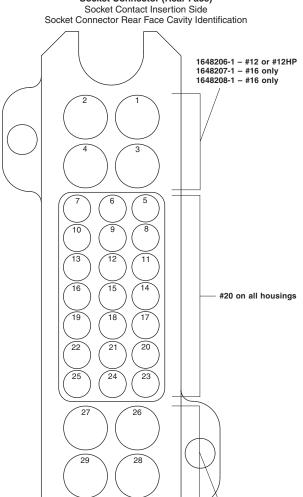
Socket Assembly

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

ENTER 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 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	Re	f.	Part Number	Termination Style	Qty.
	Α	=	1648325-1	Crimp	
#20	В	=	6648301-1	Compliant Press-fit	
	С	=	1648382-1	PCB Tail	
	D	=	6648319-1	Crimp	
#16	Ε	=	6648306-1	Compliant Press-fit	
	F	=	6648383-1	PCB Tail	
	G	=	6648318-1	Crimp	
#12	Н	=	6648304-1	Compliant Press-fit	
	J	=	6648374-1	PCB Tail	
"40 !! !	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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1648206-1 - #12 or #12HP 1648207-1 - #16 only 1648208-1 - #12 or #12HP



75A Middle Drawer Connector Pin Side Layout Form

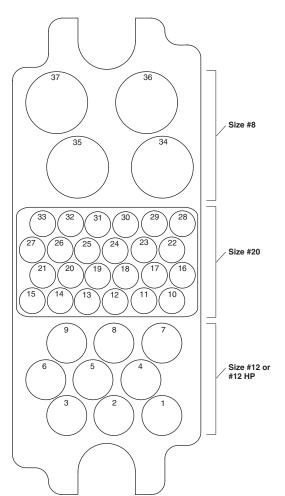
Pin Assembly

- 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 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 Selection Menu		Check
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.
#8	Α	=	1766192-1	Crimp, standard	
	В	=	1766197-1	Crimp, premate	
πυ	С	=	1766262-1	PCB tail, standard	
	D	=	1766263-1	PCB tail, premate	
	Е	=	1650155-1	Crimp, standard	
	F	=	1650161-1	Crimp, premate	
#20	G	=	1650162-2	Crimp, postmate	
πΖΟ	Н	=	1650283-1	PCB tail, standard	
	J	=	1650065-1	PCB tail, premate	
	K	=	1650226-1	PCB tail, postmate	
	L	=	1766193-1	Crimp, standard	
	M	=	1766195-1	Crimp, premate	
#12	N	=	1766196-1	Crimp, postmate	
π12	Р	=	1766245-1	PCB tail, standard	
	Q	=	1766250-1	PCB tail, premate	
	R	=	1766249-1	PCB tail, postmate	
	S	=	1650153-2	Crimp, standard, Hot Plug	
#12 Hot	T	=	1650156-2	Crimp, premate, Hot Plug	
Plug	U	=	1650060-2	PCB tail, standard, Hot Plug	
	V	=	1650074-3	PCB tail, premate, Hot Plug	

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

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

Top Assembly Part Number Assigned by Tyco Electronics

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



75A Middle Drawer Connector Socket Side Layout Form

Socket Assembly

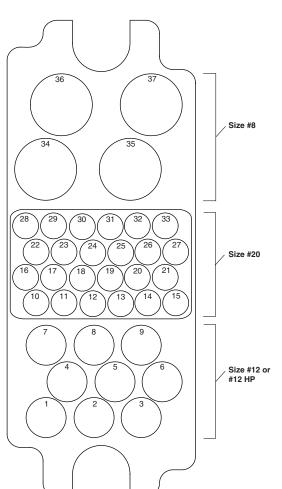
- 1. Choose one housing from the Socket Housing Selection Menu table.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed 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 CUSTOMER INFORMATION					
Company	Location				
Contact Name	Title				
Telephone	Fax				
Email Address					
I am: 🗅 End user 🗅 Contract manufacturer (end us	ser:)				
Signature	Today's Date				
	Annual Quantity Required				

Submit to your local Tyco Electronics Sales Engineer.

Socket Connector (Rear Face)

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification



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

Socket C	Socket Contact Selection Menu				
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 !! !	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



125A Middle Drawer Connector Pin Side Layout Form

Pin Assembly

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

ENTER CUSTOMER INFORMATION					
Company	Location				
Contact Name	Title				
Telephone	Fax				
Email Address					
l am: □ End user □ Contract manufacturer (end 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

Tim Commoder Floar Face Cavity facilities	odion
40 39	Size #4
38 34 37 33 36 35 35 31 29 28 28 21 21 17 16 15 11 10 9 8 7 7	Size #20
6 5 3 2 1	Size #12 or #12 HP

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

Pin Contact Selection Menu				
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	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	
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	P =	1766245-1	PCB tail, standard	
	Q =	1766250-1	PCB tail, premate	
	R =	1766249-1	PCB tail, postmate	
	S =	1650153-2	Crimp, standard, Hot Plug	
#12 Hot	T =	1650156-2	Crimp, premate, Hot Plug	
Plug	U =	1650060-2	PCB tail, standard, Hot Plug	
	V =	1650074-3	PCB tail, premate, Hot Plug	

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

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

Top Assembly Part Number Assigned by Tyco Electronics



125A Middle Drawer Connector Socket Side Layout Form

Socket Assembly

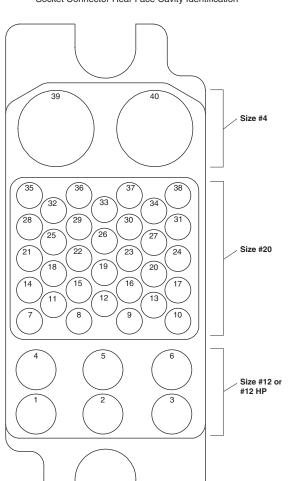
- 1. Choose one housing from the Socket Housing Selection Menu table.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed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

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

Submit to your local Tyco Electronics Sales Engineer.

Socket Connector (Rear Face)

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification



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

Socket Contact Selection Menu					
Size	Re	f.	Part Number	Termination Style	Qty.
	Α	=	6648434-1	Crimp	
#4	В	=	6648435-1	1/4-20 External Thread	
	С	=	6648335-1	M5 Internal Thread	
	D	=	1648325-1	Crimp	
#20	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	
	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

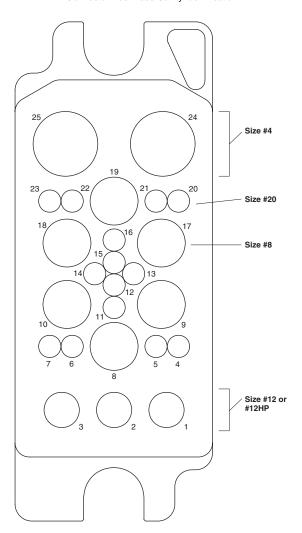
Pin Assembly

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

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

Submit to your local Tyco Electronics Sales Engineer.

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



Pin Housing Part Number 1648134-1

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

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

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

Top Assembly Part Number Assigned by Tyco Electronics



200A Middle Drawer Connector Socket Side Layout Form

Socket Assembly

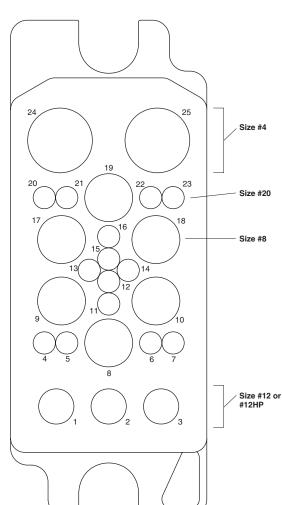
- 1. Enter company and contact information (at right).
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed by Tyco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

Socket	Connector	(Rear	Face)
--------	-----------	-------	-------

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	Contact Selection Menu				
Size	Re	f.	Part Number	Termination Style & Pin Length	Qty.
#4	Α	=	6648434-1	Crimp	
#4	В	=	6648435-1	1/4-20 External Thread	
#8	С	=	6648317-1	Crimp	
πυ	D	=	6648400-1	PCB Tail	
#20	Е	=	1648325-1	Crimp	
πΖυ	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	K	=	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.
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

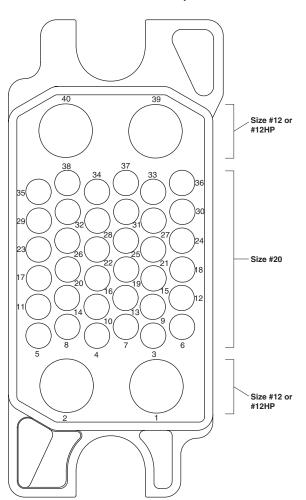
Pin Assembly

- 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

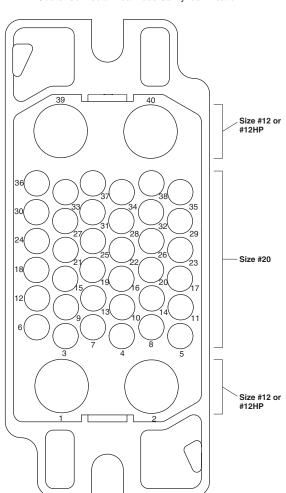
- 1. Enter company and contact information (at right).
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco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



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	В =	6648301-1	Compliant Press-fit	
	C =	1648382-1	PCB Tail	
	D =	6648318-1	Crimp	
#12	E =	6648304-1	Compliant Press-fit	
	F =	6648374-1	PCB Tail	
#40 H.J	G =	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	Н =	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.

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 Identification

Pin Contact Insertion Side Pin Connector Rear Face Cavity Identifica	ation
(G1) (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 S	election 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	
"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	
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	
πιυ	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	
πιΔ	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	

 $\label{lem:contacts} \mbox{Crimp and Threaded contacts are removable. PCB tail contacts are non-removable.}$

Float Mount Sho	ulder 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		
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 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	ontac	ct	Selection Me	nu	
Size	Ref.		Part Number	Termination Style & Pin Length	Qty.
	Α	=	6648405-1	Crimp	
	В	=	6648418-1	Probe Proof, crimp	
	С	=	6648416-1	1/4-20 Internal Thread	
	D	=	6648428-1	M6 x 1 Internal Thread	
#0	Е	=	6648419-1	Probe Proof, 1/4-20 Internal Thread	
#0	F	=	6648429-1	Probe Proof, M6 x 1 Internal Thread	
	G	=	6648417-1	1/4-20 External Thread	
	Н	=	6648430-1	M6 x 1 External Thread	
	J	=	6648420-1	Probe Proof, 1/4-20 External Thread	
	K	=	6648431-1	Probe Proof, M6 x 1 External Thread	
	L	=	1648325-1	Crimp	
#20	M	=	6648301-1	Compliant Press-fit	
	N	=	1648382-1	PCB Tail	
	Р	=	6648319-1	Crimp	
#16	Q	=	6648306-1	Compliant Press-fit	
	R	=	6648383-1	PCB Tail	
	S	=	6648318-1	Crimp	
#12	T	=	6648304-1	Compliant Press-fit	
	U	=	6648374-1	PCB Tail	
#40 He*	V	=	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	W	=	6648305-1	Compliant Press-fit, Hot Plug	
riuy	Χ	=	1648387-1	PCB Tail, Hot Plug	

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

Float Mount 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 Connector (Rear Face)	
Pin Contact Insertion Side	
Pin Connector Rear Face Cavity Identificat	or

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

Top Assembly Part Number Assigned by Tyco Electronics

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)	

Pin Contact Selection Menu				
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		
E =	1766269-1	Probe Proof, 1/4-20 Internal Thread		
F =	1766275-1	Probe Proof, M6 x 1 Internal Thread		
G =	1766268-1	1/4-20 External Thread		
H =	1766231-1	M6 x 1 External Thread		
J =	1766270-1	Probe Proof, 1/4-20 External Thread		
K =	1766276-1	Probe Proof, M6 x 1 External Thread		
L =	1650155-1	Crimp, standard		
M =	1650161-1	Crimp, premate		
N =	1650162-2	Crimp, postmate		
P =	1650283-1	PCB tail, standard		
Q =	1650065-1	PCB tail, premate		
R =	1650226-1	PCB tail, postmate		
S =	1766193-1	Crimp, standard		
T =	1766195-1	Crimp, premate		
U =	1766196-1	Crimp, postmate		
V =	1766245-1	PCB tail, standard		
W =	1766250-1	PCB tail, premate		
X =	1766249-1	PCB tail, postmate		
Y =	1650153-2	Crimp, standard, Hot Plug		
Z =	1650156-2	Crimp, premate, Hot Plug		
AA =	1650060-2	PCB tail, standard, Hot Plug		
AB =	1650074-3	PCB tail, premate, Hot Plug		
	Ref. A = B = C = D = E = F = G = H = J = K = L = M = N = P = Q = R = S = T = U = V = V = X = Y = AA = AB =	Ref. Part Number A = 1766819-1 B = 1766819-1 C = 1766230-1 D = 1766274-1 E = 1766269-1 F = 1766275-1 G = 1766268-1 H = 1766270-1 K = 1766270-1 K = 1766276-1 L = 1650155-1 M = 1650161-1 N = 1650283-1 Q = 1650065-1 R = 1650226-1 S = 1766193-1 T = 1766196-1 V = 1766245-1 W = 176629-1 X = 176629-1 X = 1650153-2 Z = 1650156-2 AA = 1650060-2 AB = 1650074-3	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 = 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 K = 1650155-1 Crimp, standard M = 1650161-1 Crimp, premate N = 1650162-2 Crimp, postmate P = 1650283-1 PCB tail, premate R = 1650226-1 PCB tail, postmate S = 1766193-1 Crimp, standard T = 1766195-1 Crimp, postmate V = 1766245-1 PCB tail, standard W = 1766250-1 PCB tail, postmate V = 1766245-1 PCB tail, postmate V = 1766249-1 PCB tail, postmate Y = 1650153-2 Crimp, premate	

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

Submit to your local Tyco Electronics Sales Engineer.

Socket Connector (Rear Face)	
Socket Contact Insertion Side	
Socket Connector Rear Face Cavity Identific	28

Socket Connector (Rear Face) Socket Contact Insertion Side	
Socket Connector Rear Face Cavity Identifi	cation
	Size #0
8 7 6 5 (12) (11) (10) (9)	Size #12 or #12HP
20 19 18 17 16 15 14 13 28 27 26 25 24 23 22 21 36 35 34 33 32 31 30 29	Size #20
(39) (38) (37) (G4) (G3)	Size #12 or #12HP

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	enu	
Size	Re	f.	Part Number	Termination Style & Pin Length	Qty.
	Α	=	6648405-1	Crimp	
	В	=	6648418-1	Probe Proof, crimp	
	С	=	6648416-1	1/4-20 Internal Thread	
	D	=	6648428-1	M6 x 1 Internal Thread	
#0	Ε	=	6648419-1	Probe Proof, 1/4-20 Internal Thread	
πυ	F	=	6648429-1	Probe Proof, M6 x 1 Internal Thread	
	G	=	6648417-1	1/4-20 External Thread	
	Н	=	6648430-1	M6 x 1 External Thread	
	J	=	6648420-1	Probe Proof, 1/4-20 External Thread	
	K	=	6648431-1	Probe Proof, M6 x 1 External Thread	
	L	=	1648325-1	Crimp	
#20	M	=	6648301-1	Compliant Press-fit	
	N	=	1648382-1	PCB Tail	
	Р	=	6648318-1	Crimp	
#12	Q	=	6648304-1	Compliant Press-fit	
	R	=	6648374-1	PCB Tail	
#40 HeA	S	=	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	Τ	=	6648305-1	Compliant Press-fit, Hot Plug	
riuy	U	=	1648387-1	PCB Tail, Hot Plug	

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

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



DualPower Drawer Connector Pin Side Layout Form

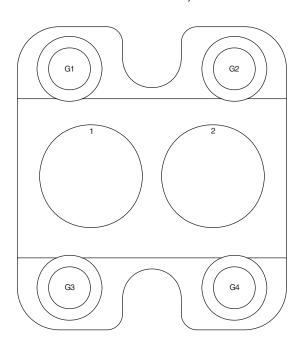
Pin Assembly

- Choose one housing from the Pin Housing Selection Menu table. Place an X in the appropriate guide pin circles, if guide pins are required.
- 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				
l am: □ End user □ Contract manufacturer (end user:				
Signature	Today's Date			
	Annual Quantity Required			

Submit to your local Tyco Electronics Sales Engineer.

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



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	
	В =	1766819-1	Probe Proof, crimp	
	C =	1766230-1	1/4-20 Internal Thread	
	D =	1766274-1	M6 x 1 Internal Thread	
#0	E =	1766269-1	Probe Proof, 1/4-20 Internal Thread	
πυ	F =	1766275-1	Probe Proof, M6 x 1 Internal Thread	
	G =	1766268-1	1/4-20 External Thread	
	Н =	1766231-1	M6 x 1 External Thread	
	J =	1766270-1	Probe Proof, 1/4-20 External Thread	
	K =	1766276-1	Probe Proof, M6 x 1 External Thread	

Contacts are removable.

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



DualPower Drawer Connector Socket Side Layout Form

Socket Assembly

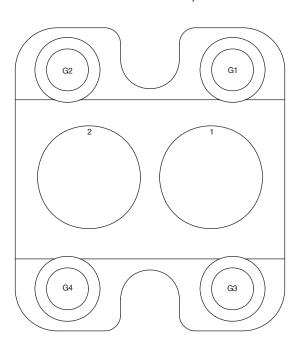
- Choose one housing from the Socket Housing Selection Menu table.
 Place an X in the appropriate guide pin circles, if guide pins are required.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp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

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

Submit to your local Tyco Electronics Sales Engineer.

Socket Connector (Rear Face)

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification



Top Asse	embly	Part I	Number
Assigned	by Ty	co Ele	ectronics

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

Socket C	Socket Contact Selection Menu				
Size	Re	f.	Part Number	Termination Style & Pin Length	Qty.
	Α	=	6648405-1	Crimp	
	В	=	6648418-1	Probe Proof, crimp	
	C	=	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		



QuadPower Drawer Connector Pin Side Layout Form

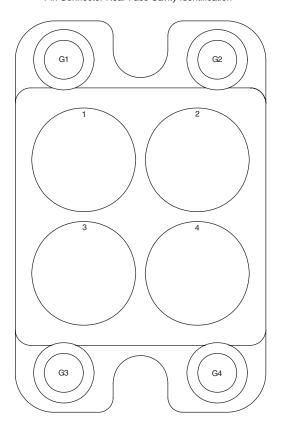
Pin Assembly

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

ENTER CUSTOMER INFORMATION				
Company	Location			
Contact Name	Title			
Telephone	Fax			
Email Address				
I am: 🗅 End user 🗅 Contract manufacturer (end 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 ASSE	emb	ıy Pa	irt N	lumi	oer
Assigned	by ⁻	Гусо	Ele	ctro	nics

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

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

Contacts are removable.

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



QuadPower Drawer Connector Socket Side Layout Form

Socket Assembly

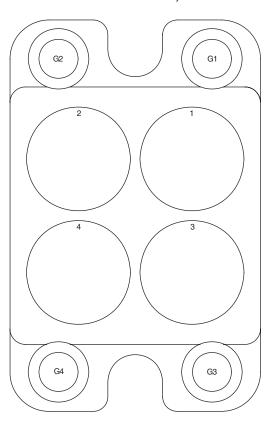
- Choose one housing from the Socket Housing Selection Menu table.
 Place an X in the appropriate guide pin circles, if guide pins are required.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp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

ENTER CUSTOMER INFORMATION				
Company	Location			
Contact Name	Title			
Telephone	Fax			
Email Address				
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 Ni	ımber
Assigned	by	Tyco	Elec	tronics

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 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	

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

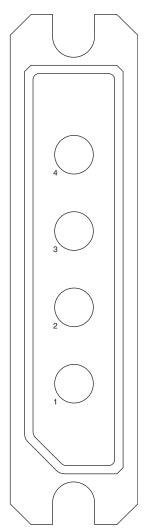
Pin Assembly

- 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 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 1651493-1

in Cont	act S	el	ection Menu		
Size	Ref	f.	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

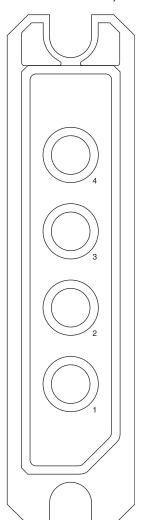
- 1. Enter company and contact information (at right).
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Threaded contacts are installed by Tyco Electronics; 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 CUSTOMI	ER INFORMATION
Company	Location
Contact Name	Title
Telephone	Fax
Email Address	
I am: 🗅 End user 🗅 Contract manufacturer (end us	ser:)
Signature	Today's Date
	Annual Quantity Required

Submit to your local Tyco Electronics Sales Engineer.

Socket Connector (Rear Face) Socket Contact Insertion Side

Socket Contact Insertion Side
Socket Connector Rear Face Cavity Identification



Socket Housing Part Number 1651404-1

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

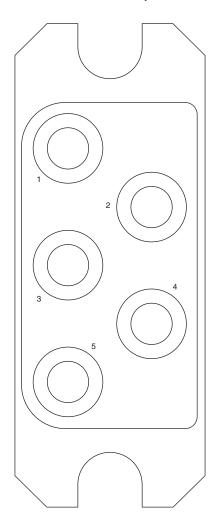
- 1. Enter company and contact information (at right).
- 2. Write the total quantity of each pin contact you require for each pin assembly in the Qty column of the Pin Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Threaded contacts are installed by Tyco Electronics; enter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

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 Sh	oulder 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

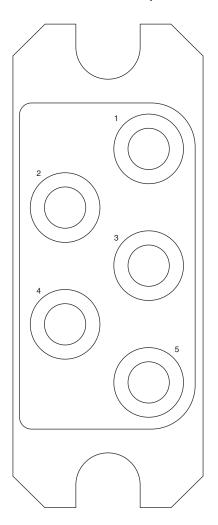
- 1. Enter company and contact information (at right).
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Threaded contacts are installed by Tyco Electronics; 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 CUSTOMI	ER INFORMATION
Company	Location
Contact Name	Title
Telephone	Fax
Email Address	
I am: 🗅 End user 🗅 Contract manufacturer (end us	ser:)
Signature	Today's Date
	Annual Quantity Required

Submit to your local Tyco Electronics Sales Engineer.

Socket Connector (Rear Face)

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification



Socket Housing Part Number 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

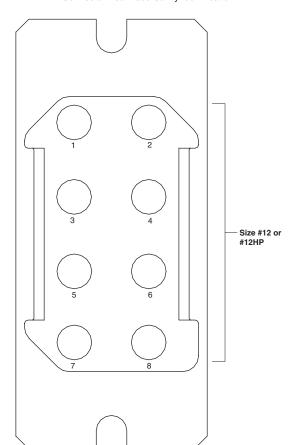
Pin Assembly

- 1. Enter company and contact information (at right).
- 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 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	
1648127-1 = Fixed Mount	

Pin Conta	act Se	lection 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.

Top Assembly Part Number Assigned by Tyco Electronics



HV8P Drawer Connector Socket Side Layout Form

Socket Assembly

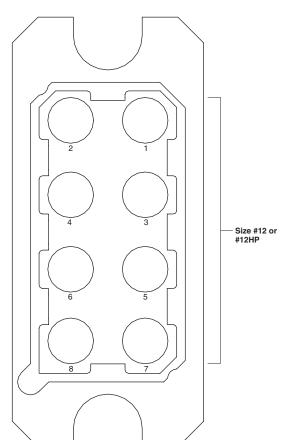
- 1. Enter company and contact information (at right).
- 2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by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

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

Submit to your local Tyco Electronics Sales Engineer.

Socket Connector (Rear Face)

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification



Socket Housing Part Number

1648128-1 = Float Mount

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

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

Float Mount Sh	oulder 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 shown for

reference purposes only. Specifications subject

to change.

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P10S0 Drawer Connector Pin Side Layout Form

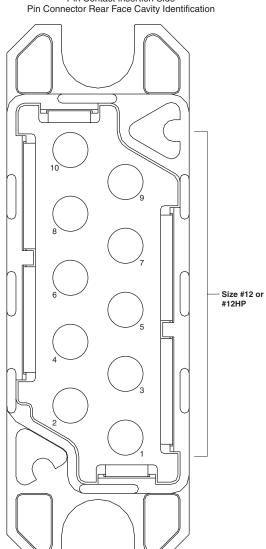
Pin Assembly

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

ENTER CUSTOMI	R 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		
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.

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

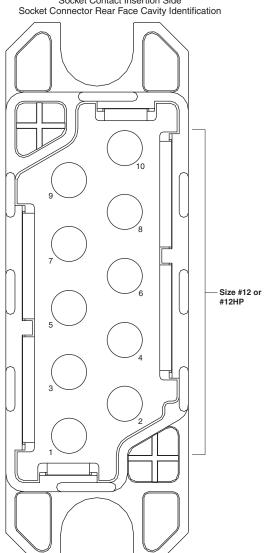
- 1. Enter company and contact information (at right).
- 2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by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

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.
	Α :	=	6648318-1	Crimp	
#12	В :	=	6648304-1	Compliant Press-fit	
	C =	=	6648374-1	PCB Tail	
#40 H-1	D =	=	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	E :	=	6648305-1	Compliant Press-fit, Hot Plug	
iluy	F =	=	1648387-1	PCB Tail, Hot Plug	

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

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

Top Assembly Part Number Assigned by Tyco Electronics

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P10S22 Drawer Connector Pin Side Layout Form

Pin Assembly

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

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

ENTER CUSTOMER INFORMATION					
Company	Location				
Contact Name	Title				
Telephone Fax					
Email Address					
I am: 🗅 End user 🗅 Contract manufacturer (end us	ser:)				
Signature	Today's Date				
	Annual Quantity Required				
Submit to your local Tyco Electronics Sales Engineer					

Submit to your local Tyco Electronics Sales Engineer.

ctor Rear Fa	ce Cavily it	denuncation
	$ \begin{bmatrix} 1 \\ 3 \\ 5 \end{bmatrix} $	Size #12
11 12 15 16 19 20 1	6 7 9 10 3 14 17 18 21 22 25	Size #20
27 27 28 30 30 32	29	Size #12

Pin Housing Part Number 1648211-1

Pin Conta	act S	el	ection Menu		
Size	Ref		Part Number	Termination Style & Pin Length	Qty.
	Α	=	1650155-1	Crimp, standard	
	В	=	1650161-1	Crimp, premate	
#20	С	=	1650162-2	Crimp, postmate	
πΖυ	D	=	1650283-1	PCB tail, standard	
	Ε	=	1650065-1	PCB tail, premate	
	F	=	1650226-1	PCB tail, postmate	
	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	
#12 Hot Plug	N	=	1650153-2	Crimp, standard, Hot Plug	
	Р	=	1650156-2	Crimp, premate, Hot Plug	
	Q	=	1650060-2	PCB tail, standard, Hot Plug	
	R	=	1650074-3	PCB tail, premate, Hot Plug	

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

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

Top Assembly Part Number Assigned by Tyco Electronics

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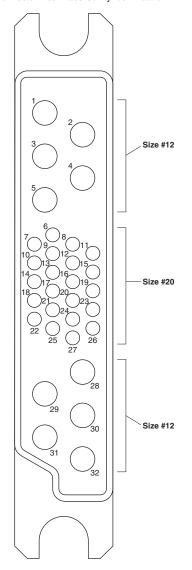
P10S22 Drawer Connector Socket Side Layout Form

Socket Assembly

- 1. Enter company and contact information (at right).
- 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 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 Housing Part Number 1648212-1

Socket C	ontac	ct	Selection Me	nu	
Size	Ref		Part Number	Termination Style & Pin Length	Qty.
	Α	=	1648325-1	Crimp	
#20	В	=	6648301-1	Compliant Press-fit	
	С	=	1648382-1	PCB Tail	
	D	=	6648318-1	Crimp	
#12	Ε	=	6648304-1	Compliant Press-fit	
	F	=	6648374-1	PCB Tail	
#40 H-4	G	=	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	Н	=	6648305-1	Compliant Press-fit, Hot Plug	
1 lug	J	=	1648387-1	PCB Tail, Hot Plug	

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

Float Mount Sh	oulder 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

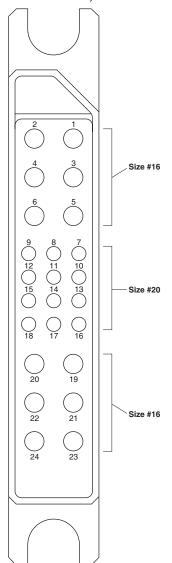


P12S12 Drawer Connector Pin Side Layout Form

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

Submit to your local Tyco Electronics Sales Engineer.

Pin Housing Part Number 1651202-1

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

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

Float Mount Sho	ulder 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



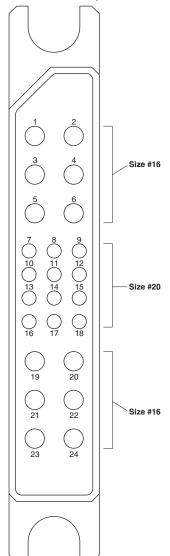
P12S12 Drawer Connector Socket Side Layout Form

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 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 1651203-1

Socket C	ontact	Selection Me	nu	
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1648325-1	Crimp	
#20	В =	6648301-1	Compliant Press-fit	
	C =	1648382-1	PCB Tail	
	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 Sh	oulder Screw	
Part Number	Description	Qty.
1650402-1	Screw, No 8-32 UNC 2A	
1650589-1	Screw, M4 x 0.7	

Top Assembly Part Number Assigned by Tyco Electronics



POS30 Drawer Connector Pin Side Layout Form

Pin Assembly

- 1. Enter company and contact information (at right).
- 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 user:		
Signature	Today's Date	
	Annual Quantity Required	

Submit to your local Tyco Electronics Sales Engineer.

nnector Rear Face Cavity Iden	tification
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	Size #20

Pin Housing Part Number	
6651204-1	

Pin Cont	act Sel	ection Menu		
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1650155-1	Crimp, standard	
	В =	1650161-1	Crimp, premate	
#20	C =	1650162-2	Crimp, postmate	
πΖυ	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 Sh	oulder Screw	
Part Number	Description	Qty.
1650402-1	Screw, No 8-32 UNC 2A	
1650589-1	Screw, M4 x 0.7	

Top Assembly Part Number Assigned by Tyco Electronics



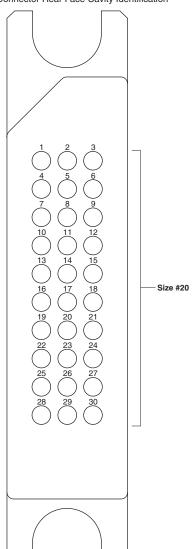
POS30 Drawer Connector Socket Side Layout Form

Socket Assembly

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

Sacket	Connector	(Roar	Eaco)

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification



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

Submit to your local Tyco Electronics Sales Engineer.

Socket Housing Part Number

6651205-1

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

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

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

Top Assembly Part Number Assigned by Tyco Electronics



Mouser Electronics

Authorized Distributor

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

TE Connectivity: 6648335-1