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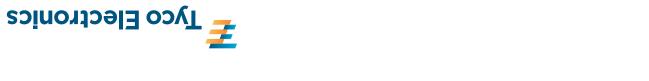
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Tyco Electronics Corporation Harrisburg, PA





RoHS Ready



Our commitment, Your advantage,

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



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MULTI-BEAM XL Custom Connector Worksheet

PCB Mount Description Des	Cable Mount XYZ Floating		3	Plugs XYZ Floating	
Receptacle (Vertical Shown) Electrically Hot	Slide-to-Lock			Squeeze-to- Release	
To create a unique configuration for MULTI-BEAM XL Connector	ors simply comp	lete this worksheet a	and forward	l it to your Tyco E	Electronics sales engineer.
1. Application			☐ Cab	le-to-Board	
2. Gender Plug (Male)			Rec	eptacle (Fem	ale)
	d Mate specil It Angle	fy Floating or Sli	de-to-Loc	-	Latching
4. Termination (Cable Only) Power 8 AWG Signal 22 AWG		10 AWG 24 AWG		12 AWG 26 AWG	☐ 14 AWG
· · · · · · · =	er tail .135″ er tail .165″		Pres	s-Fit .120″ [3. s-Fit .135″ [3. s-Fit .165″ [4.	.43mm]
Enter the position (Mate-First	Power Conta cosition(s) to t-Break-Last) .200" [5.08m .250" [6.35m .300" [7.62m Signal Conta Positions with A is standar Power Conta cositions to b	(Accepts #6 screents (Loaded with be loaded with be loaded with be (i.e. #1,#3, etc.) am] (HDP) am] (ACP) acts (Multiples of Post-Mate Contad (i.e. A1, A3, etc.) acts (Loaded with Price. #1, #3, etc.) am] (HDP)	ews, right n standar Pre-mate 8 are sta acts (Mate c.) n standar re-Mate C	angle connection and length Power contact (Recondard, i.e. 16e-Last-Break-Fid length Power and length Power l	er Contacts) eptacles only) 5, 24, 32) First, Plugs only) er Contacts)
	.300″ [7.62m	- ' '			
9. Customer Information					
Name:Comp	any:		_Locatio	on:	
Phone:Fax:					
(Submit to your local Tyco Electronics Sales Engineer)		AMP, ELCON, MULTI- Tyco Electronics Corp		LOGO and TYCO E	LECTRONICS are trademarks of

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www	ı.tyco	electr	onics.o

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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									
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	icing 🖵	250 VAC spacing							
2.	SIGNAL CONTACTS										
	☐ No signal contacts required	6 contacts	24 contacts	30 contacts	☐ Other:						
	☐ Signal sequencing required (two pin lengths available; write requirements under NOTES below.)										

3. DC INPUT/OUTPUT

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

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

4. BOARD MOUNTING STYLE Straight Socket (choose one) Short solder tail (.062" thick boards) Long solder tail (.093/.125" thick boards) Compliant press-fit tails (.093" min. thick board recommended)	Right Angle Blade (choose one) ☐ Short solder tail (for .062" thick boards) ☐ Long solder tail (.093/.125" thick boards)
5. OTHER REQUIREMENTS Alignment guides required Connector length restriction, if any: " (mm) For further clarity, you can attach a sketch to this form if necessary. Sketch attached: pages	NOTES:
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Sketch attached:	u can attach a sketch to this to	orm if necessary		
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Catalog 6-1773444-7 Revised 10-07 www.tycoelectronics.com	Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.	Dimensions are shown for reference purposes only. Specifications subject to change.	USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803	South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: +44-(0) 800-267-666



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

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

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

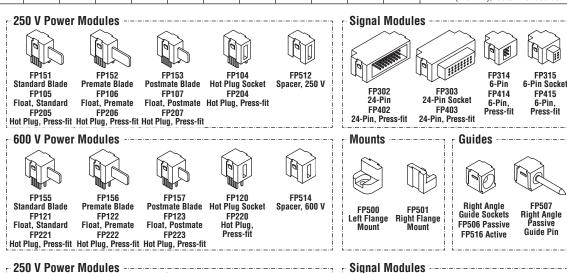
Write the "FP" numbers to indicate the layout of one half of the connector assembly, matching the left to right order with the mating face view of the connector (right angle assembly tails facing downwards)

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

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

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

Right Angle Mount



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 - 600 V Power Modules 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



FP100

Hot Plug, Solder

Hot Plug, Press-fit

FP154 Socket, Solder

FP116



FP165

Standard Blade

FP117

FP217

Hot Plug, Press-fit







FP166

Premate Blade

FP118

Float, Premate

FP218



FP167

Postmate Blade

FP119

Float, Postmate

FP219

Hot Plug, Press-fit













FP318 24-Pin Socket

FP418 24-Pin Skt, Press-fit









FP312 6-Pin

6-Pin, FP413 Press-fit 6-Pin Skt,

FP313

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Socket, Press-fit Float, Standard

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Mini Drawer Connector Pin Side Layout Form

Pin Assembly

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

ENTER CUSTOMER INFORMATION		
Company	Location	
Contact Name	Title	
Telephone	Fax	
Email Address		
I am: □ 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 Connector Rear Face C	avity identification
2 3	1648110-1 – #12 or #12HP 1648111-1 – #16 only 1648112-1 – #16 only
6 7 8 9 10 11 12 13 14 15 16 17 19	─#20 on all housings
20 21	1648110-1 - #12 or #12HP 1648111-1 - #16 only 1648112-1 - #12 or #12HP

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

Size	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	
	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	
#12	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 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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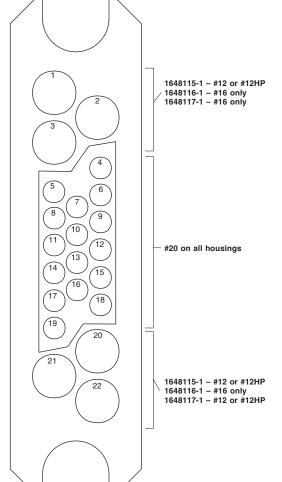


Mini Drawer Connector Socket Side Layout Form

Socket Assembly

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

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 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 Contact Selection Menu				
Size	Ref.	Part Number	Termination Style	Qty.
	A =	1648325-1	Crimp	
#20	B =	6648301-1	Compliant Press-fit	
	C =	1648382-1	PCB Tail	
	D =	6648319-1	Crimp	
#16	E =	6648306-1	Compliant Press-fit	
	F =	6648383-1	PCB Tail	
	G =	6648318-1	Crimp	
#12	H =	6648304-1	Compliant Press-fit	
	J =	6648374-1	PCB Tail	
"40 !! .	K =	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	=	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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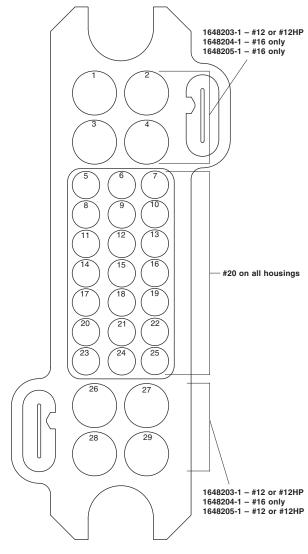


Lower Drawer Connector Pin Side Layout Form

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.

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



Top Assembly Part Number Assigned by Tyco Electronics

ENTER CUSTOMER INFORMATION				
Company	Location			
Contact Name	Title			
Telephone	Fax			
Email Address				
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 Selection Menu		
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 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	
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	
#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	
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		

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Dimensions are in inches and to change.

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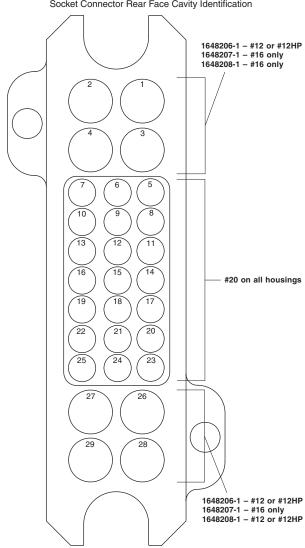
Lower Drawer Connector Socket Side Layout Form

Socket Assembly

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

Socket Connector (Rear Face)
Socket Contact Inse	ertion 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 us	er:)			
Signature	Today's Date			
	Annual Quantity Required			

Submit to your local Tyco Electronics Sales Engineer.

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 (Socket Contact Selection Menu				
Size	Ref.	Part Number	Termination Style	Qty.	
	A =	1648325-1	Crimp		
#20	В =	6648301-1	Compliant Press-fit		
	C =	1648382-1	PCB Tail		
	D =	6648319-1	Crimp		
#16	E =	6648306-1	Compliant Press-fit		
	F =	6648383-1	PCB Tail		
	G =	6648318-1	Crimp		
#12	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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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 Pin Side Layout Form

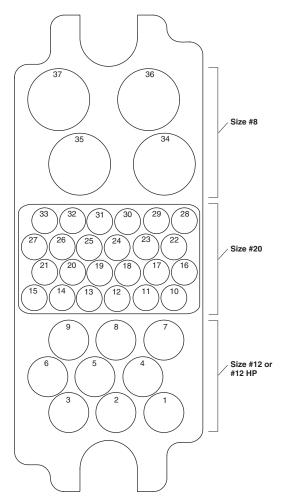
Pin Assembly

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

Submit to your local Tyco Electronics Sales Engineer.

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



Pin Housing Selection Menu		Check
Part Number	Description	One
1648162-1	Float Mount for Crimp Contacts	
1648163-1	Flush PCB Mount for PCB Tail Contacts	

Size	Re	f.	Part Number	Termination Style & Pin Length	Qty
	Α	=	1766192-1	Crimp, standard	
#8	В	=	1766197-1	Crimp, premate	
#0	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	
#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	
#12 Hot Plug	S	=	1650153-2	Crimp, standard, Hot Plug	
	Τ	=	1650156-2	Crimp, premate, Hot Plug	
	U	=	1650060-2	PCB tail, standard, Hot Plug	
	V	=	1650074-3	PCB tail, premate, Hot Plug	

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

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

Top Assembly Part Number Assigned by Tyco Electronics

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Catalog 6-1773444-7 Revised 10-07

Revised 10-07
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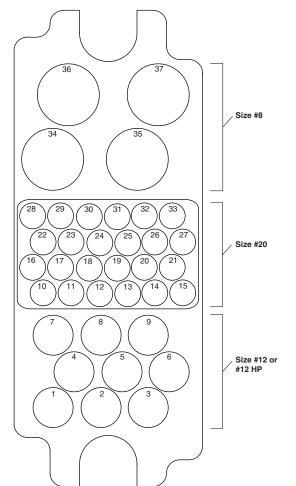


75A Middle Drawer Connector Socket Side Layout Form

Socket Assembly

- 1. Choose one housing from the **Socket Housing Selection Menu** table.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 PCB tail contact to be installed in contact position #8, write "J" in circle #8.
- 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 CUSTOME	R INFORMATION
Company	Location
Contact Name	Title
Telephone	Fax
Email Address	
I am: □ End user □ Contract manufacturer (end us	er:
Signature	Today's Date
	Annual Quantity Required

Submit to your local Tyco Electronics Sales Engineer.

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

Socket C	ontact	Selection Me	nu	
Size	Ref.	Part Number	Termination Style	Qty.
	A =	6648317-1	Crimp	
#8	B =	6648351-1	Knurled Press-fit	
	C =	6648400-1	PCB Tail	
#20	D =	1648325-1	Crimp	
	E =	6648294-1	Compliant Press-fit (Flush)	
	F =	1648382-1	PCB Tail	
	G =	6648318-1	Crimp	
#12	H =	6648304-1	Compliant Press-fit	
	J =	6648374-1	PCB Tail	
#12 Hot Plug	K =	1648384-1	Crimp, Hot Plug	
	= L	6648305-1	Compliant Press-fit, Hot Plug	
	M =	1648387-1	PCB Tail, Hot Plug	

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

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

Top Assembly Part Number Assigned by Tyco Electronics

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

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11





125A Middle Drawer Connector Pin Side Layout Form

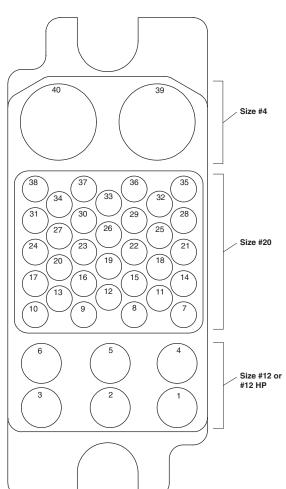
Pin Assembly

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

Size	Re	f.	Part Number	Termination Style & Pin Length	Qty.
	Α	=	1766232-1	Crimp, standard	
#4	В	=	1766812-1	1/4-20 External Thread	
	С	=	1766283-1	M5 Internal Thread	
	Е	=	1650155-1	Crimp, standard	
	F	=	1650161-1	Crimp, premate	
#20	G	=	1650162-2	Crimp, postmate	
#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	Τ	=	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

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Catalog 6-1773444-7 Revised 10-07

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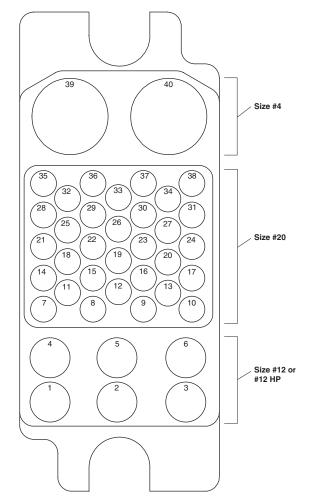


125A Middle Drawer Connector Socket Side Layout Form

Socket Assembly

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

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



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

Submit to your local Tyco Electronics Sales Engineer.

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

Socket C	ontac	t Selection Me	nu	
Size	Ref.	Part Number	Termination Style	Qty.
	Α =	6648434-1	Crimp	
#4	В =	6648435-1	1/4-20 External Thread	
	C =	6648335-1	M5 Internal Thread	
	D =	1648325-1	Crimp	
#20	E =	6648301-1	Compliant Press-fit	
	F =	1648382-1	PCB Tail	
	G =	6648318-1	Crimp	
#12	Н =	6648304-1	Compliant Press-fit	
	J =	6648374-1	PCB Tail	
#40 H-1	K =	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	L =	6648305-1	Compliant Press-fit, Hot Plug	
riug	M =	1648387-1	PCB Tail, Hot Plug	

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

Float Mount 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	

Top Assembly Part Number Assigned by Tyco Electronics

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Catalog 6-1773444-7 Revised 10-07

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

Dimensions are in inches and

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





200A Middle Drawer Connector Pin Side Layout Form

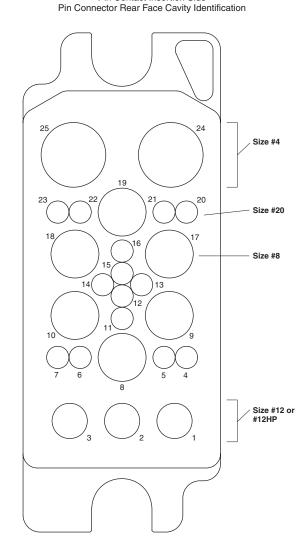
Pin Assembly

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

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

Submit to your local Tyco Electronics Sales Engineer.

Pin Connector (Rear Face) Pin Contact Insertion Side



Pin Housing Part Number 1648134-1

Pin Conta	act S	Sel	ection Menu		
Size	Re	f.	Part Number	Termination Style & Pin Length	Qty.
#4	Α	=	1766232-1	Crimp, standard	
#4	В	=	1766812-1	1/4-20 External Thread	
#8	С	=	1766192-1	Crimp, standard	
πυ	D	=	1766197-1	Crimp, premate	
	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 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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Revised 10-07 millimeters unless specified. Values in www.tycoelectronics.com are metric equivale

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200A Middle Drawer Connector Socket Side Layout Form

Socket Assembly

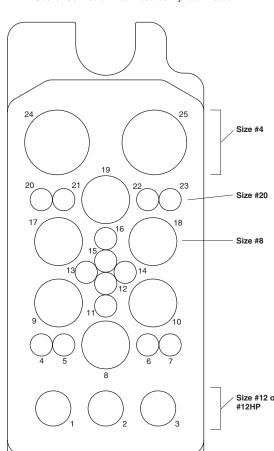
- 1. Enter company and contact information (at right).
- 2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection
- 3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed by Tyco Electronics;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

Socket Connector (Rear Face)

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification

ENTER CUSTOMER INFORMATION				
Company	Location			
Contact Name	Title			
Telephone	Fax			
Email Address				
I am: □ End user □ Contract manufacturer (end 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	ontact	Selection Me	nu	
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
#4	A =	6648434-1	Crimp	
#4	В =	6648435-1	1/4-20 External Thread	
#8	C =	6648317-1	Crimp	
πυ	D =	6648400-1	PCB Tail	
#20	E =	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 Sho	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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millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

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



Square Drawer Connector Pin Side Layout Form

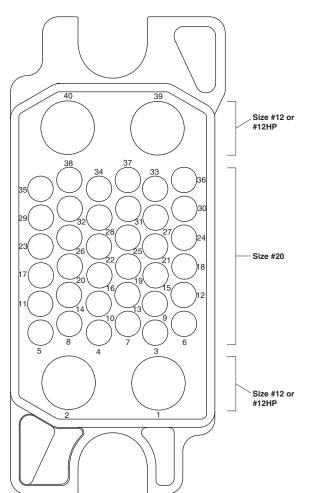
Pin Assembly

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

ENTER CUSTOMER INFORMATION		
Company	Location	
Contact Name	Title	
Telephone	Fax	
Email Address		
l 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 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	
	Н =	1766195-1	Crimp, premate	
#12	J =	1766196-1	Crimp, postmate	
πιΖ	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

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

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

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Square Drawer Connector Socket Side Layout Form

Socket Assembly

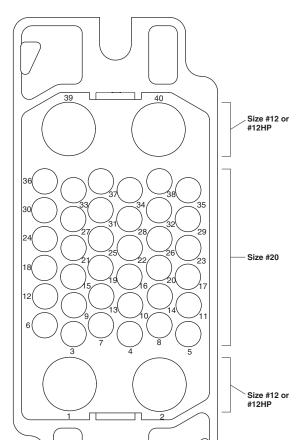
- 1. Enter company and contact information (at right).
- 2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection
- 3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco Electronics; 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	er:	
Signature	Today's Date	
	Annual Quantity Required	

Submit to your local Tyco Electronics Sales Engineer.

Socket Connector (Rear Face) Socket Contact Insertion Side

Socket Connector Rear Face Cavity Identification



Socket Housing Part Number 1648133-1 = Fixed Mount only

Socket Contact Selection Menu				
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	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-4	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

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

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

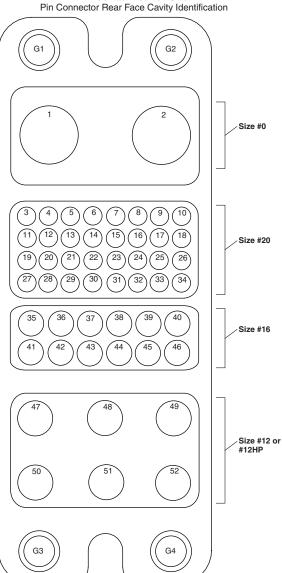
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

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.
- 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.

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



Top Assembly Part Number Assigned by Tyco Electronics

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

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)	

Ref. Part Number Termination Style & Pin Length	
#0 #0 #0 #0 #0 #0 #0 #0 #0 #0	Qty.
#0 #0 The image of the imag	
#0 #0 The image of the imag	
#0 E = 1766269-1 Probe Proof, 1/4-20 Internal Thread F = 1766275-1 Probe Proof, M6 x 1 Internal Thread H = 176628-1 1/4-20 External Thread J = 1766270-1 Probe Proof, 1/4-20 External Thread J = 1766270-1 Probe Proof, 1/4-20 External Thread K = 1766276-1 Probe Proof, M6 x 1 External Thread F = 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 = 1766194-1 Crimp, standard	
#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 N = 1650162-2 Crimp, postmate P = 1650283-1 PCB tail, standard Q = 1650065-1 PCB tail, premate R = 1650226-1 PCB tail, postmate S = 1766194-1 Crimp, standard	
#20 F = 1/662/5-1 Probe Proof, M6 x 1 Internal Thread H = 1766281-1 M6 x 1 External Thread J = 1766270-1 Probe Proof, 1/4-20 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 = 1766194-1 Crimp, standard Crimp, s	ıd
#20 H = 1766231-1	ad
#20 J = 1766270-1 Probe Proof, 1/4-20 External Thre K = 1766276-1 Probe Proof, M6 x 1 External Thre 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 = 1766194-1 Crimp, standard	
#20 K = 1766276-1 Probe Proof, M6 x 1 External Thre 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 = 1766194-1 Crimp, standard	
#20 L = 1650155-1 Crimp, standard M = 1650161-1 Crimp, premate N = 1650162-2 Crimp, postmate P = 1650283-1 PCB tail, standard Q = 1650065-1 PCB tail, premate R = 1650226-1 PCB tail, postmate S = 1766194-1 Crimp, standard	ad
#20 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 = 1766194-1 Crimp, standard	ad
#20 N = 1650162-2 Crimp, postmate P = 1650283-1 PCB tail, standard Q = 1650065-1 PCB tail, premate R = 1650226-1 PCB tail, postmate S = 1766194-1 Crimp, standard	
P = 1650283-1 PCB tail, standard Q = 1650065-1 PCB tail, premate R = 1650226-1 PCB tail, postmate S = 1766194-1 Crimp, standard	
P = 1650283-1 PCB tail, standard Q = 1650065-1 PCB tail, premate R = 1650226-1 PCB tail, postmate S = 1766194-1 Crimp, standard	
R = 1650226-1 PCB tail, postmate S = 1766194-1 Crimp, standard	
S = 1766194-1 Crimp, standard	
17	
T = 1766108-1 Crimp promate	
1 = 1700190-1 Gillip, premate	
#16 U = 1766199-1 Crimp, postmate	
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	
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 Shou	lder Screw	
Part Number	Description	Qty.
1650399-1	Screw, No 10-32 UNC 2A	
1650401-1	Screw, M5 x 0.8	

Catalog 6-1773444-7 Revised 10-07

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

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

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



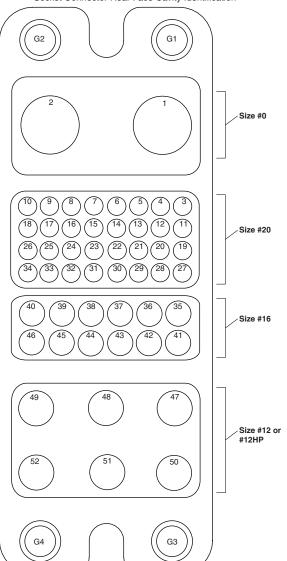
Top Drawer Connector Socket Side Layout Form

Socket Assembly

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



Top Assembly Part Number Assigned by Tyco Electronics

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

Submit to your local Tyco Electronics Sales Engineer.

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

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	
#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	Τ	=	6648304-1	Compliant Press-fit	
	U	=	6648374-1	PCB Tail	
#40 HeA	٧	=	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	W	=	6648305-1	Compliant Press-fit, Hot Plug	
riug	Χ	=	1648387-1	PCB Tail, Hot Plug	

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

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

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Catalog 6-1773444-7 Revised 10-07

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

Dimensions are in inches and

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

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

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					
Location					
Title					
Fax					
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	ation
(G2)	
	Size #0
3 4	
9 10 11 12	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 S	Pin Housing Selection Menu	
Part Number	Description	One
1648552-1	Housing without guides	
	Housing with guides (#6-32 thread)	
	Housing with guides (M3 x 0.5 thread)	

Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1766811-1	Crimp	
	B =	1766819-1	Probe Proof, crimp	
	C =	1766230-1	1/4-20 Internal Thread	
	D =	1766274-1	M6 x 1 Internal Thread	
#0	E =	1766269-1	Probe Proof, 1/4-20 Internal Thread	
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	
πΖυ	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	
πιΔ	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	

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

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Double Drawer Connector Socket Side Layout Form

Socket Assembly

- Choose one housing from the Socket Housing Selection Menu table.
 Place an X in the appropriate guide pin circles, if guide pins are required.
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 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	eer:				
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 Identifi	cation
G2 G1	
	Size #0
4 3	
8 7 6 5 12 11 10 9	Size #12 or #12HP

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

Socket Contact Selection Menu					
Size	Re	f.	Part Number	Termination Style & Pin Length	Qty.
	Α	=	6648405-1	Crimp	
	В	=	6648418-1	Probe Proof, crimp	
	С	=	6648416-1	1/4-20 Internal Thread	
	D	=	6648428-1	M6 x 1 Internal Thread	
#0	Е	=	6648419-1	Probe Proof, 1/4-20 Internal Thread	
πυ	F	=	6648429-1	Probe Proof, M6 x 1 Internal Thread	
	G	=	6648417-1	1/4-20 External Thread	
	Н	=	6648430-1	M6 x 1 External Thread	
	J	=	6648420-1	Probe Proof, 1/4-20 External Thread	
	K	=	6648431-1	Probe Proof, M6 x 1 External Thread	
	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 H-4	S	=	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	Т	=	6648305-1	Compliant Press-fit, Hot Plug	
riuy	U	=	1648387-1	PCB Tail, Hot Plug	

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			

Top Assembly Part Number Assigned by Tyco Electronics

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Catalog 6-1773444-7 Revised 10-07

Revised 10-07 millimeters unless specified. Values ir www.tycoelectronics.com are metric equivale

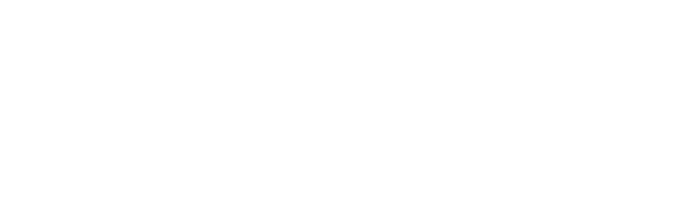
Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

/Size #20

Size #12 or

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

21





DualPower Drawer Connector Pin Side Layout Form

Pin Assembly

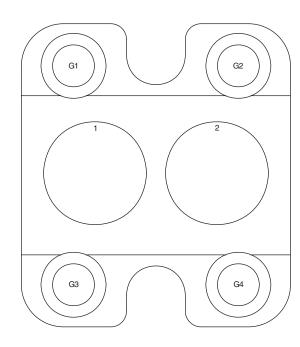
- Choose one housing from the **Pin Housing Selection Menu** table. Place an X in the appropriate guide pin circles, if guide pins are required.
- 2. Write the total quantity of each pin contact you require for each pin assembly in the Qty column of the Pin Contact Selection Menu table.
- 3. Crimp contacts 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.
- Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

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

Submit to your local Tyco Electronics Sales Engineer.

Pin Connector (Rear Face)

Pin Contact Insertion Side Pin Connector Rear Face Cavity Identification



Pin Housing Selection Menu		
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		
#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		

Contacts are removable.

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

Top Assembly Part Number Assigned by Tyco Electronics

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DualPower Drawer Connector Socket Side Layout Form

Socket Assembly

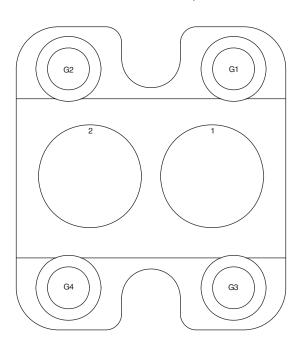
- 1. Choose one housing from the **Socket Housing Selection Menu** table. Place an X in the appropriate guide pin circles, if guide pins are required.
- 2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection
- 3. Crimp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

Socket Connector (Rear Face)

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification



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

Socket Contact Selection Menu						
Size	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.

Top Asse	mb	ly Pa	ırt I	Number	
Assigned	by	Tyco	Εle	ectronics	

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

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to change.

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Dimensions are shown for reference purposes only. Specifications subject



QuadPower Drawer Connector Pin Side Layout Form

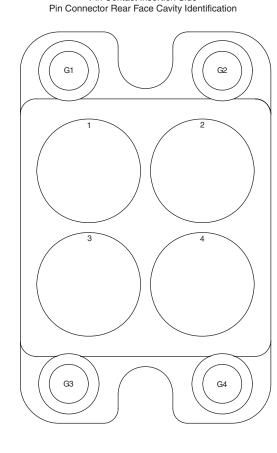
Pin Assembly

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

Submit to your local Tyco Electronics Sales Engineer.

Pin Connector (Rear Face) Pin Contact Insertion Side



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

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

Contacts are removable.

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

Top Assembly Part Number Assigned by Tyco Electronics

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QuadPower Drawer Connector Socket Side Layout Form

Socket Assembly

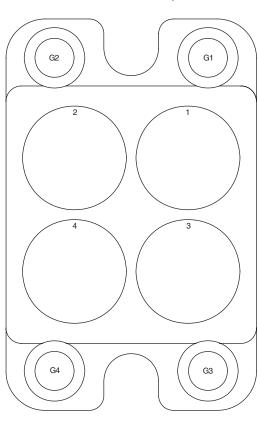
- 1. Choose one housing from the **Socket Housing Selection Menu** table. Place an X in the appropriate guide pin circles, if guide pins are required.
- 2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection
- 3. Crimp 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 CUSTOME	R INFORMATION
Company	Location
Contact Name	Title
Telephone	Fax
Email Address	
I am: 🗅 End user 🗅 Contract manufacturer (end us	er:
Signature	Today's Date
	Annual Quantity Required

Submit to your local Tyco Electronics Sales Engineer.

Socket Connector (Rear Face)

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification



Socket Housing Selection Menu		
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	onta	act	Selection Me	nu	
Size	Re	f.	Part Number	Termination Style & Pin Length	Qty.
	Α	=	6648405-1	Crimp	
	В	=	6648418-1	Probe Proof, crimp	
	С	=	6648416-1	1/4-20 Internal Thread	
	D	=	6648428-1	M6 x 1 Internal Thread	
#0	Ε	=	6648419-1	Probe Proof, 1/4-20 Internal Thread	
#0	F	=	6648429-1	Probe Proof, M6 x 1 Internal Thread	
	G	=	6648417-1	1/4-20 External Thread	
	Н	=	6648430-1	M6 x 1 External Thread	
	J	=	6648420-1	Probe Proof, 1/4-20 External Thread	
	K	=	6648431-1	Probe Proof, M6 x 1 External Thread	

Contacts are removable.

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

Top Assembly Part Number Assigned by Tyco Electronics

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Catalog 6-1773444-7 Revised 10-07

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

Dimensions are in inches and

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



In-Line QuadPower Drawer Connector Pin Side Layout Form

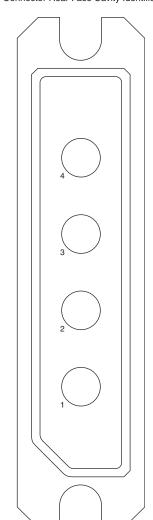
Pin Assembly

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

ENTER CUSTOMI	ER 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	
1651493-1	

Pin Conta	act Sel	ection 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		

Top Assembly Part Number Assigned by Tyco Electronics

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Catalog 6-1773444-7 Revised 10-07

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

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In-Line QuadPower Drawer Connector Socket Side Layout Form

Company

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
- 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.

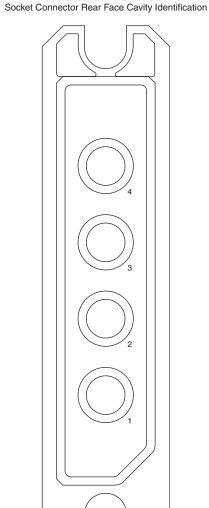
Contact Name	Title
Telephone	Fax
Email Address	
I am: 🗅 End user 🗅 Contract manufacturer (end us	ser:)
Signature	Today's Date
	Annual Quantity Required

ENTER CUSTOMER INFORMATION

Location

Submit to your local Tyco Electronics Sales Engineer.

Socket Connector (Rear Face) Socket Contact Insertion Side



Socket Housing Part Number 1651404-1

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	
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

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

Dimensions are in inches and

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W5 Power Drawer Connector Pin Side Layout Form

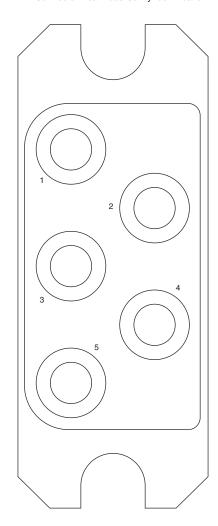
Pin Assembly

- 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 user:				
Signature	Today's Date			
	Annual Quantity Required			

Submit to your local Tyco Electronics Sales Engineer.

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



Pin Housing Part Number
6651457-1

Pin Contact Selection Menu				
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	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

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Catalog 6-1773444-7 Revised 10-07

Revised 10-07 millimete specified. www.tycoelectronics.com are metric

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W5 Power Drawer Connector Socket Side Layout Form

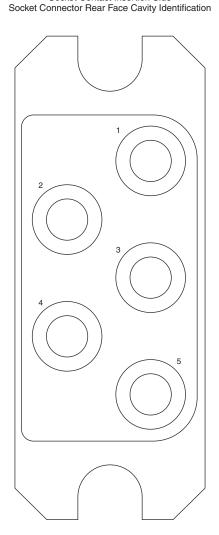
Socket Assembly

- 1. Enter company and contact information (at right).
- 2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection
- 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			
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	
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

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HV8P Drawer Connector Pin Side Layout Form

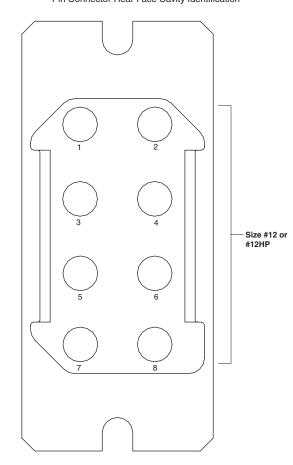
Pin Assembly

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

ENTER CUSTOMER INFORMATION				
Company	Location			
Contact Name	Title			
Telephone	Fax			
Email Address				
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 Part Number	
16/0107 1 - Eivad Mount	

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

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

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Catalog 6-1773444-7 Revised 10-07

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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

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HV8P Drawer Connector Socket Side Layout Form

Socket Assembly

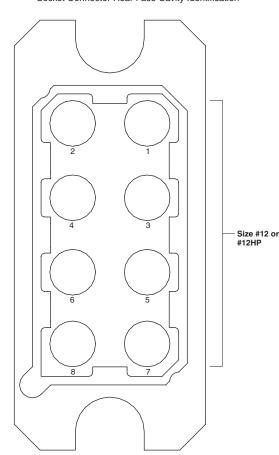
- 1. Enter company and contact information (at right).
- Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco 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.
- Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

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

Submit to your local Tyco Electronics Sales Engineer.

Socket 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.
	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	
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

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Catalog 6-1773444-7 Revised 10-07

Revised 10-07 millimeters unless specified. Values ir www.tycoelectronics.com are metric equivale

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.

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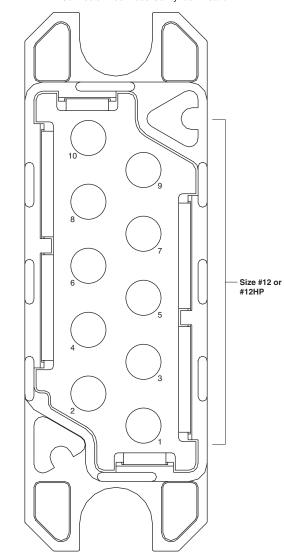


P10S0 Drawer Connector Pin Side Layout Form

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.

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



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

Submit to your local Tyco Electronics Sales Engineer.

Pin Housing Part Number 1648568-1

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

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

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

Top Assembly Part Number Assigned by Tyco Electronics

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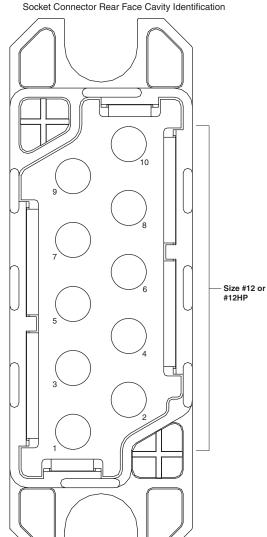
P10S0 Drawer Connector Socket Side Layout Form

Socket Assembly

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

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

Socket Contact Insertion Side



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 1648596-1

Socket Contact Selection Menu				
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	
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

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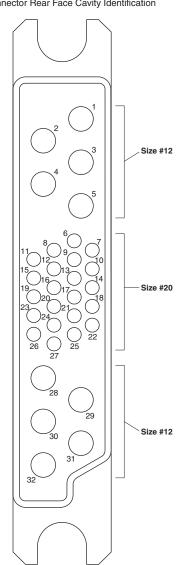
P10S22 Drawer Connector Pin Side Layout Form

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
onnector Rear Face Cavity Identification

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



Pin Housing Part Number 1648211-1

Pin Contact Selection Menu					
Size	Ref	f.	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	
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	Р	=	1650156-2	Crimp, premate, Hot Plug	
Plug	Q	=	1650060-2	PCB tail, standard, Hot Plug	
	R	=	1650074-3	PCB tail, premate, Hot Plug	

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

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

Top Assembly Part Number Assigned by Tyco Electronics

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to change.

Dimensions are shown for reference purposes only. Specifications subject

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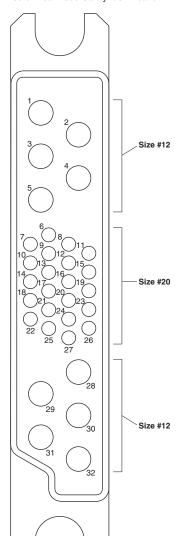
P10S22 Drawer Connector Socket Side Layout Form

Socket Assembly

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

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

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification



ENTER CUSTOMER INFORMATION					
Company	Location				
Contact Name	Title				
Telephone	Fax				
Email Address					
I am: Lend user Contract manufacturer (end us	er:				
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.
	Α :	=	1648325-1	Crimp	
#20	В :	=	6648301-1	Compliant Press-fit	
	C :	=	1648382-1	PCB Tail	
	D :	=	6648318-1	Crimp	
#12	Ε :	=	6648304-1	Compliant Press-fit	
	F :	=	6648374-1	PCB Tail	
#40 HeA	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 Shoulder Screw				
Part Number	Description	Qty.		
1650402-1	Screw, No 8-32 UNC 2A			
1650589-1	Screw, M4 x 0.7			

Top Assembly Part Number Assigned by Tyco Electronics

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Catalog 6-1773444-7 Revised 10-07

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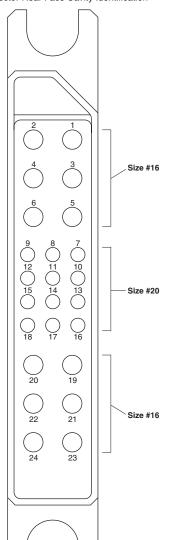


P12S12 Drawer Connector Pin Side Layout Form

Pin Assembly

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

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



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

Submit to your local Tyco Electronics Sales Engineer.

Pin Housing Part Number 1651202-1

Pin Contact Selection Menu				
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1650155-1	Crimp, standard	
	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	
π10	K =	1766222-1	PCB tail, standard	
	L =	1766223-1	PCB tail, premate	
	M =	1766818-1	PCB tail, postmate	

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

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

Top Assembly Part Number Assigned by Tyco Electronics

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Dimensions are in inches and

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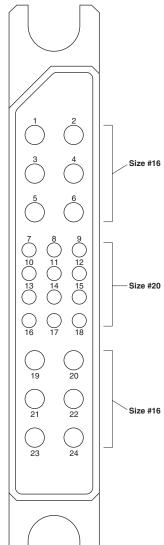
P12S12 Drawer Connector Socket Side Layout Form

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.
- 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 CUSTOME	ER 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 Housing Part Numbe	r
1651203-1	

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

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

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

Submit to your local Tyco Electronics Sales Engineer.

Pin Housing Part Number	
6651204-1	

Pin Contact Selection Menu				
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	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 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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Size #20

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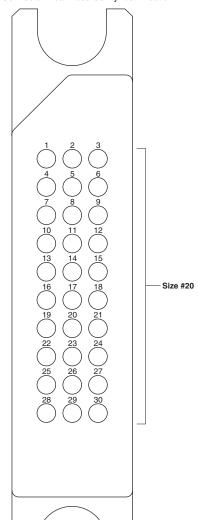
POS30 Drawer Connector Socket Side Layout Form

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

Socket Connector (Rear Face)

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification



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

Submit to your local Tyco Electronics Sales Engineer.

Socket Housing Part Number 6651205-1

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

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

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

Top Assembly Part Number Assigned by Tyco Electronics

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