

Connector Layout Forms AMP & ELCON Power







Tyco Electronics Corporation Harrisburg, PA

6-1773444-7-2.5M-LUG-FP-10-07

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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:

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

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

Dimensions are shown for

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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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RoHS

Customer

Support

Center

₹ Tyco Electronics	AMP & ELCON Power Connector Layout Forms
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	MULTI-BEAM	(L Custom Conne	ector Worksheet		
PCB Mount		Cable Mount	A DIE	lugs	0.
Hold Bown Header/Plug	y y y y y b c d t d t d t d t d t d t d t d t d t d	XYZ Floating		XYZ Floating	
	$\begin{array}{c} \hline \\ \hline $	Slide-to-Lock		Squeeze-to- Release	
To create a unique config	juration for MULTI-BEAM XL Connec	ors simply complete this	worksheet and forward it i	o your Tyco Elec	tronics sales engineer.
1. Application	Board-to-Board		Cable-	to-Board	
2. Gender	Plug (Male)		Recep	tacle (Female)
3. Orientation	· <u> </u>	d Mate specify Float nt Angle	ing or Slide-to-Lock	-	Latching
4. Termination	(Cable Only)				
	Power 8 AWG	10 AW		2 AWG	🗌 14 AWG
	Signal 22 AWG	24 AW		6 AWG	
5. Termination St	-	der tail .135″ [3.43mi der tail .165″ [4.19mi		Fit .120″ [3.05 Fit .135″ [3.43	-
		uer tall 100 [4.19M]		-it .135 [3.43 Fit .165″ [4.19	-
6. Mounting to P	CB Hold Downs (one o	n either end)			1
			ts #4 screws, right ar	gle connecto	rs only)
			ts #6 screws, right ar	-	
Section B: (Sign Section C: (Powe	er Contacts) Enter # of Enter the (Mate-First erline Spacings: al Contacts) Enter # of Enter the Note: Row er Contacts) Enter # of Enter the (Mate-First erline Spacings: guirements	position(s) to be load it-Break-Last) (i.e. # .200" [5.08mm] (HE .250" [6.35mm] (P) .300" [7.62mm](AC Signal Contacts (Mu Positions with Post-M / A is standard (i.e. A Power Contacts (Lo positions to be load it-Break-Last, i.e. #1 .200" [5.08mm] (HE .250" [6.35mm] (P) .300" [7.62mm] (AC	DP) ultiples of 8 are stand late Contacts (Mate-L A1, A3, etc.) aded with standard l ed with Pre-Mate Cor , #3, etc.) DP)	ntact (Recept lard, i.e. 16, 2 ast-Break-Firs ength Power (itacts (Recep	tacles only) 4, 32) st, Plugs only) Contacts) tacles only)
9. Customer Info Name:		pany:	Location:		
Phone:	Fax:		e-mail:		
	Fax:	AMP, EL	e-mail: CON, MULTI-BEAM XL, TE LO ctronics Corporation.		

Tyco Electronics AMP & E

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

1. AC INPUT

□ No AC input required □ 125 VAC spacing □ 250 VAC spacing

2. SIGNAL CONTACTS

□ No signal contacts required
 □ 6 contacts
 □ 24 contacts
 □ 30 contacts
 □ Other:

 □ Signal sequencing required (two pin lengths available; write requirements under NOTES below.)

3. DC INPUT/OUTPUT

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

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

5. OTHER REQUIREMENTS

4

NOTES:

Right Angle Blade (choose one)

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

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

 Alignment guides Connector length re 	required estriction, if any: " (_	mm)			
For further clarity, you Sketch attached: _	i can attach a sketch to this for pages	rm if necessary.			
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FLATPAQ Connector Layout Form

Instructions

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

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

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

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).

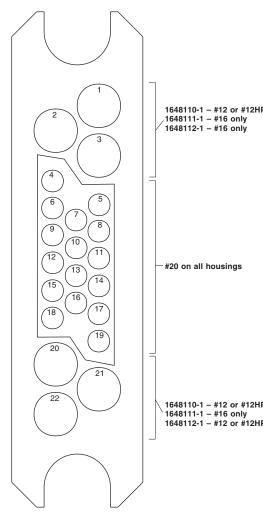
Right Angle Mount250 V Power Modules \widehat{P} Solution $$	FP Solder Tail Options
Mount FP101 FP152 FP153 FP104 FP512 FP302 Standard Blade Premate Blade Postmate Blade Hot Plug Socket Spacer, 250 V FP302 F105 FP105 FP106 FP107 FP204 Spacer, 250 V FP302 F105 FP105 FP206 FP207 Hot Plug, Press-fit FP205 FP207 Hot Plug, Press-fit Hot Plug, Press-fit Hot Plug, Press-fit FP207 FP207 FP402 FP402 F000 V Power Modules FP155 FP156 FP157 FP120 FP514 FP121 FP122 FP122 FP123 FP120 FP514 F121 FP122 FP123 FP223 Press-fit FP500 F221 FP222 FP223 Press-fit Hot Plug, Press-fit Hot Plug, Press-fit Hot Plug, Press-fit Hot Plug, Press-fit Hot Plug, Press-fit Hot Plug, Press-fit FP500	Wodules Image: Straight Filling Big P303 FP314 FP315 6-Pin 6-Pin 2 FP303 FP414 6-Pin 6-Pin
600 V Power ModulesMountsFP155FP156FP157FP120FP514Standard BladePremate BladePostmate BladeHot Plug SocketSpacer, 600 VFP121FP122FP123FP220Float, StandardFloat, PremateFloat, PostmateHot Plug,FP221FP222FP223Press-fitHot Plug, Press-fitHot Plug, Press-fitHot Plug, Press-fit	FP501 Right Flange Mount Bank State FP506 Passive FP506 Passive FP506 Passive
Straight Mount 250 V Power Modules Signal I	
FP100 FP201 FP202 FP203 compliant Press-fit. Hot Plug, Solder Hot Plug,	
boxes to the right of the connector layout grid above. 0.093" or thicker boards are recommended for compliant Press-fit termination style. Consult Tyco Electronics for signal module sequencing. See Catalog 1773096 for benefits of Hot Plug	FP501 Right Flange Mount FP502 Straight Guide Pins Straight Passive Guide Socket FP503 Passive FP503 Passive FP515 Active, M3 FP517 Active, 4-40 N, FLATPAQ, TE LOGO and TYCO ELECTRONICS rks of Tyco Electronics Corporation.

Mini Drawer Connector Pin Side Layout Form

Pin Assembly

- 1. Choose one housing from the **Pin Housing Selection Menu** table.
- 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 Pin Connector Rear Face Cavity Identification



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

Submit to your local Tyco Electronics Sales Engineer.

Pin Housing Se	lection 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
	A =	1650155-1	Crimp, standard	
	B =	1650161-1	Crimp, premate	
#20	C =	1650162-2	Crimp, postmate	
#20	D =	1650283-1	PCB tail, standard	
	E =	1650065-1	PCB tail, premate	
	F =	1650226-1	PCB tail, postmate	
	G =	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	
ΠΙ Δ	R =	1766245-1	PCB tail, standard	
	S =	1766250-1	PCB tail, premate	
	T =	1766249-1	PCB tail, postmate	
	U =	1650153-2	Crimp, standard, Hot Plug	
#12 Hot	V =	1650156-2	Crimp, premate, Hot Plug	
Plug	W =	1650060-2	PCB tail, standard, Hot Plug	
	Х =	1650074-3	PCB tail, premate, Hot Plug	

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

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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C. America: 52-55-1106-0803

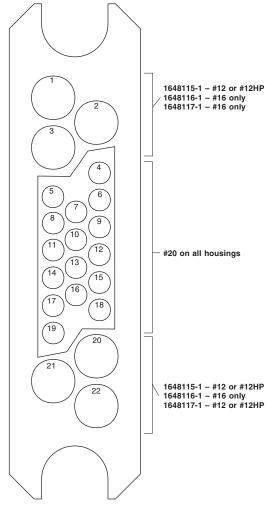
Mini Drawer Connector Socket Side Layout Form

Socket Assembly

1. Choose one housing from the **Socket Housing Selection Menu** table.

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

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



ENTER CUSTOMER INFORMATION		
Company	Location	
Contact Name	Title	
Telephone	Fax	
Email Address		
I am: D End user Contract manufacturer (end 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
1648115-1	#12, #20, #12 Socket Housing, Float or Fixed Mounting	
1648116-1	#16, #20, #16 Socket Housing, Float or Fixed Mounting	
1648117-1	#16, #20, #12 Socket Housing, Float or Fixed Mounting	

Size	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	Η =	6648304-1	Compliant Press-fit	
	J =	6648374-1	PCB Tail	
	Κ =	1648384-1	Crimp, Hot Plug	
#12 Hot	L =	6648305-1	Compliant Press-fit, Hot Plug	
Plug	М =	1648387-1	PCB Tail, Hot Plug	

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

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

to change.

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.
- 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 Pin Connector Rear Face Cavity Identification

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

Submit to your local Tyco Electronics Sales Engineer.

	1648203-1 - #12 or #12HP 1648204-1 - #16 only 1648205-1 - #16 only
$ \begin{array}{c} 1\\ 3\\ 4\\ \hline \end{array} $	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	— #20 on all housings
	1648203-1 - #12 or #12HP 1648204-1 - #16 only 1648205-1 - #12 or #12HP

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

Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
0120	A =	1650155-1	Crimp, standard	
	B =	1650161-1	Crimp, premate	
#20	C =	1650162-2	Crimp, postmate	
#20	D =	1650283-1	PCB tail, standard	
	E =	1650065-1	PCB tail, premate	
	F =	1650226-1	PCB tail, postmate	
	G =	1766194-1	Crimp, standard	
	Η =	1766198-1	Crimp, premate	
#16	J =	1766199-1	Crimp, postmate	
π10	K =	1766222-1	PCB tail, standard	
	L =	1766223-1	PCB tail, premate	
	M =	1766818-1	PCB tail, postmate	
	N =	1766193-1	Crimp, standard	
	P =	1766195-1	Crimp, premate	
#12	Q =	1766196-1	Crimp, postmate	
<i>π</i> 12	R =	1766245-1	PCB tail, standard	
	S =	1766250-1	PCB tail, premate	
	T =	1766249-1	PCB tail, postmate	
	U =	1650153-2	Crimp, standard, Hot Plug	
#12 Hot	V =	1650156-2	Crimp, premate, Hot Plug	
Plug	W =	1650060-2	PCB tail, standard, Hot Plug	
	Х =	1650074-3	PCB tail, premate, Hot Plug	

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

Float Mount Sho	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	
	Part Number 1650402-1 1650106-1	1650402-1 Screw, No 8-32 UNC 2A 1650106-1 Screw, No 6-32 UNC 2A

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Dimensions are in inches and

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Lower Drawer Connector Socket Side Layout Form

Company

Socket Assembly

1. Choose one housing from the **Socket Housing Selection Menu** table.

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

Socket Connector (Rear Face)

Socket Contact Insertion Side

ach tion	Contact Name	Title
	Telephone	Fax
talled tail if you	Email Address	I
n #8,	I am: 🗅 End user 🗅 Contract manufacturer (end us	er:
onics	Signature	Today's Date
		Annual Quantity Required
	Submit to your local Type Electropics Co	loo Enginoor

ENTER CUSTOMER INFORMATION

Location

Submit to your local Tyco Electronics Sales Engineer.

Socket Contact Insertion Socket Connector Rear Face Cav		
	1648206-1 – #12 or #12HP 1648207-1 – #16 only 1648208-1 – #16 only	So Pa 16
		16 So
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	—— #20 on all housings	#
	1648206-1 - #12 or #12HP 1648207-1 - #16 only 1648208-1 - #12 or #12HP	FI P

Socket Housing Selection Menu		Check
Part Number	Description	One
1648206-1	#12, #20, #12 Socket Housing, Float or Fixed Mounting	
1648207-1	#16, #20, #16 Socket Housing, Float or Fixed Mounting	
1648208-1	#16, #20, #12 Socket Housing, Float or Fixed Mounting	

Size	Re	f.	Part Number	Termination Style	Qty.
	А	=	1648325-1	Crimp	
#20	В	=	6648301-1	Compliant Press-fit	
	С	=	1648382-1	PCB Tail	
	D	=	6648319-1	Crimp	
#16	Е	=	6648306-1	Compliant Press-fit	
	F	=	6648383-1	PCB Tail	
	G	=	6648318-1	Crimp	
#12	Н	=	6648304-1	Compliant Press-fit	
	J	=	6648374-1	PCB Tail	
	Κ	=	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	L	=	6648305-1	Compliant Press-fit, Hot Plug	
riuy	Μ	=	1648387-1	PCB Tail, Hot Plug	

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

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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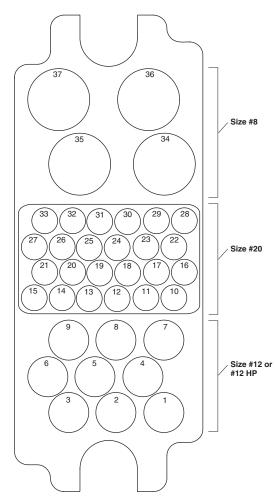
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75A Middle Drawer Connector Pin Side Layout Form

Pin Assembly

- 1. Choose one housing from the **Pin Housing Selection Menu** table.
- 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.

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



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

Submit to your local Tyco Electronics Sales Engineer.

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

Size	Ref.	Part Number	Termination Style & Pin Length	Qty
	A =	1766192-1	Crimp, standard	
#8	B =	1766197-1	Crimp, premate	
π υ	C =	1766262-1	PCB tail, standard	
	D =	1766263-1	PCB tail, premate	
	E =	1650155-1	Crimp, standard	
	F =	1650161-1	Crimp, premate	
#20	G =	1650162-2	Crimp, postmate	
#20	H =	1650283-1	PCB tail, standard	
	J =	1650065-1	PCB tail, premate	
	K =	1650226-1	PCB tail, postmate	
#12	L =	1766193-1	Crimp, standard	
	M =	1766195-1	Crimp, premate	
	N =	1766196-1	Crimp, postmate	
#12	P =	1766245-1	PCB tail, standard	
	Q =	1766250-1	PCB tail, premate	
	R =	1766249-1	PCB tail, postmate	
	S =	1650153-2	Crimp, standard, Hot Plug	
#12 Hot	T =	1650156-2	Crimp, premate, Hot Plug	
Plug	U =	1650060-2	PCB tail, standard, Hot Plug	
	V =	1650074-3	PCB tail, premate, Hot Plug	

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

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

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Top Assembly Part Number Assigned by Tyco Electronics

10

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

Dimensions are in inches and

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

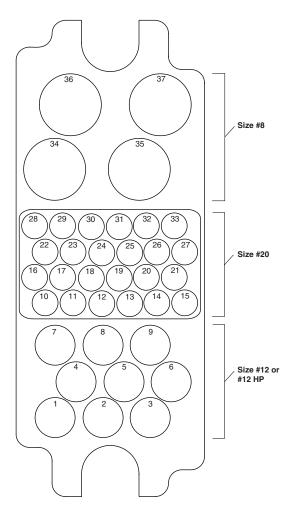
75A Middle Drawer Connector Socket Side Layout Form

Socket Assembly

1. Choose one housing from the **Socket Housing Selection Menu** table.

- 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 contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 PCB tail contact to be installed in contact position #8, write "J" in circle #8.
- 4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

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



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

Submit to your local Tyco Electronics Sales Engineer.

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

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

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

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

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

11

Tyco Electronics AMP & ELCON Power Connector Layout Forms

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125A Middle Drawer Connector Pin Side Layout Form

Pin Assembly

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

Pin Connector (Rear Face) Pin Contact Insertion Side Pin Connector Rear Face Cavity Identi	fication
40 39	Size #4
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Size #12 or #12 HP
	/

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

Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1766232-1	Crimp, standard	
#4	B =	1766812-1	1/4-20 External Thread	
	C =	1766283-1	M5 Internal Thread	
	E =	1650155-1	Crimp, standard	
	F =	1650161-1	Crimp, premate	
#20	G =	1650162-2	Crimp, postmate	
#20	H =	1650283-1	PCB tail, standard	
	J =	1650065-1	PCB tail, premate	
	K =	1650226-1	PCB tail, postmate	
-	L =	1766193-1	Crimp, standard	
	M =	1766195-1	Crimp, premate	
#12	N =	1766196-1	Crimp, postmate	
#12	P =	1766245-1	PCB tail, standard	
	Q =	1766250-1	PCB tail, premate	
	R =	1766249-1	PCB tail, postmate	
	S =	1650153-2	Crimp, standard, Hot Plug	
#12 Hot	T =	1650156-2	Crimp, premate, Hot Plug	
Plug	U =	1650060-2	PCB tail, standard, Hot Plug	
	V =	1650074-3	PCB tail, premate, Hot Plug	

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

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

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reference purposes only.USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
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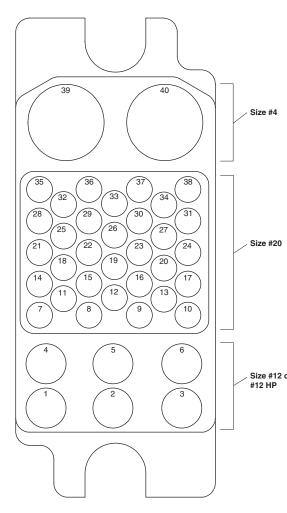
125A Middle Drawer Connector Socket Side Layout Form

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 Menu table.
- 3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 PCB tail contact to be installed in contact position #4, write "J" in circle #4.
- 4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

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



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

Submit to your local Tyco Electronics Sales Engineer.

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

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

Float Mour	Float Mount Shoulder Screw		
Part Numbe	er 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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South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: +44-(0) 800-267-666

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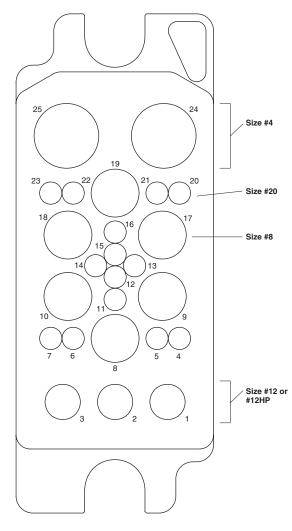
200A Middle Drawer Connector Pin Side Layout Form

Pin Assembly

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

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

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



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

Submit to your local Tyco Electronics Sales Engineer.

Pin Housing Part Number	
1648134-1	

Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
#4	A =	1766232-1	Crimp, standard	
#4	B =	1766812-1	1/4-20 External Thread	
#8	C =	1766192-1	Crimp, standard	
#0	D =	1766197-1	Crimp, premate	
	E =	1650155-1	Crimp, standard	
	F =	1650161-1	Crimp, premate	
#20	G =	1650162-2	Crimp, postmate	
	H =	1650283-1	PCB tail, standard	
	J =	1650065-1	PCB tail, premate	
	K =	1650226-1	PCB tail, postmate	
#12	L =	1766193-1	Crimp, standard	
	M =	1766195-1	Crimp, premate	
	N =	1766196-1	Crimp, postmate	
#12	P =	1766245-1	PCB tail, standard	
	Q =	1766250-1	PCB tail, premate	
	R =	1766249-1	PCB tail, postmate	
	S =	1650153-2	Crimp, standard, Hot Plug	
#12 Hot	T =	1650156-2	Crimp, premate, Hot Plug	
Plug	U =	1650060-2	PCB tail, standard, Hot Plug	
	V =	1650074-3	PCB tail, premate, Hot Plug	

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

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

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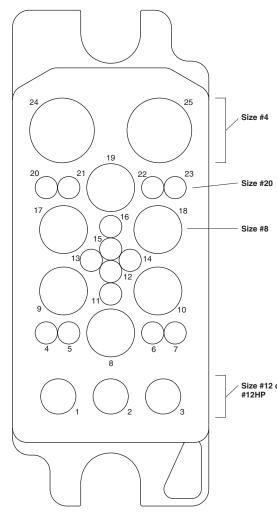
200A Middle Drawer Connector Socket Side Layout Form

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 Menu table.
- 3. Crimp contacts are shipped uninstalled. Threaded and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a size #4 external thread contact to be installed in contact position #25, write "B" in circle #25.
- 4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

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



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

Submit to your local Tyco Electronics Sales Engineer.

Socket Housing Part Number	
1648135-1	

Socket C	Socket Contact Selection Menu				
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.	
#4	A =	6648434-1	Crimp		
#4	В =	6648435-1	1/4-20 External Thread		
#8	C =	6648317-1	Crimp		
π0	D =	6648400-1	PCB Tail		
#20	E =	1648325-1	Crimp		
π20	F =	1648382-1	PCB Tail		
#12	G =	6648318-1	Crimp		
#12	Η =	6648374-1	PCB Tail		
#12 Hot	J =	1648384-1	Crimp, Hot Plug		
Plug	K =	1648387-1	PCB Tail, Hot Plug		

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

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

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Top Assembly Part Number Assigned by Tyco Electronics

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Square Drawer Connector Pin Side Layout Form

Pin Assembly

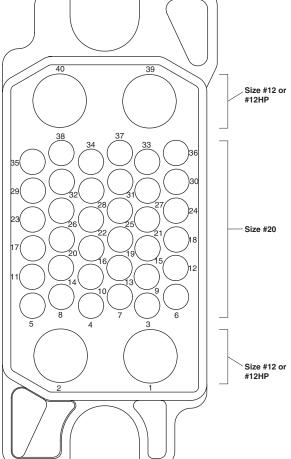
1. Enter company and contact information (at right).

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

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

Submit to your local Tyco Electronics Sales Engineer.





Pin Housing Part Number	
1648132-1	

Pin Conta	act Sel	ection Menu		
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1650155-1	Crimp, standard	
	В =	1650161-1	Crimp, premate	
#20	C =	1650162-2	Crimp, postmate	
π20	D =	1650283-1	PCB tail, standard	
	E =	1650065-1	PCB tail, premate	
	F =	1650226-1	PCB tail, postmate	
	G =	1766193-1	Crimp, standard	
	H =	1766195-1	Crimp, premate	
#12	J =	1766196-1	Crimp, postmate	
π1 Δ	K =	1766245-1	PCB tail, standard	
	L =	1766250-1	PCB tail, premate	
	M =	1766249-1	PCB tail, postmate	
	N =	1650153-2	Crimp, standard, Hot Plug	
#12 Hot	P =	1650156-2	Crimp, premate, Hot Plug	
Plug	Q =	1650060-2	PCB tail, standard, Hot Plug	
	R =	1650074-3	PCB tail, premate, Hot Plug	

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

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

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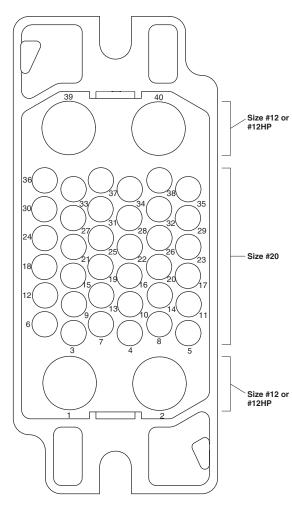
Square Drawer Connector Socket Side Layout Form

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 Menu table.
- 3. Crimp contacts are shipped uninstalled. Press-fit and PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a non-hot plug size #12 PCB tail contact to be installed in contact position #1, write "F" in circle #1.
- 4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

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



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

Submit to your local Tyco Electronics Sales Engineer.

Socket Housing Part Number	
1648133-1 = Fixed Mount only	

Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1648325-1	Crimp	
#20	B =	6648301-1	Compliant Press-fit	
	C =	1648382-1	PCB Tail	
	D =	6648318-1	Crimp	
#12	E =	6648304-1	Compliant Press-fit	
	F =	6648374-1	PCB Tail	
	G =	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	H =	6648305-1	Compliant Press-fit, Hot Plug	
riuy	J =	1648387-1	PCB Tail, Hot Plug	

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

Top Assembly Part Number Assigned by Tyco Electronics

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to change.

Dimensions are in inches and

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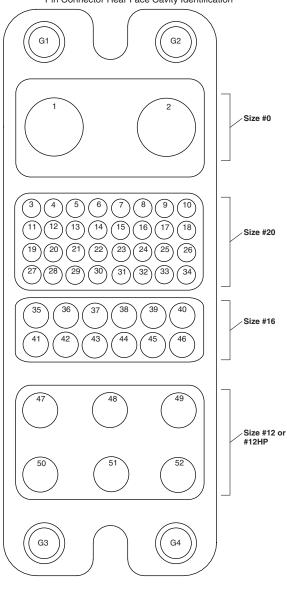
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Top Drawer Connector Pin Side Layout Form

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 Pin Connector Rear Face Cavity Identification



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

Submit to your local Tyco Electronics Sales Engineer.

Part Numb		ection Menu Description		Chec One
1648183-1		Housing without guides		
Housing without guides (#6-32 thread)				
		Housing with g	guides (M3 x 0.5 thread)	
Pin Conta	act Sel	ection Menu		
Size	Ref.		Termination Style & Pin Length	Qty.
	A =		Crimp	
	B =	1766819-1	Probe Proof, crimp	
	C =	1766230-1	1/4-20 Internal Thread	
	D =	1766274-1	M6 x 1 Internal Thread	
#0	E =	1766269-1	Probe Proof, 1/4-20 Internal Thread	
	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	
	P =	1650283-1	PCB tail, standard	
	Q =	1650065-1	PCB tail, premate	
	R = S =	1650226-1	PCB tail, postmate	
		<u>1766194-1</u> 1766198-1	Crimp, standard	
	-	1766199-1	Crimp, premate	
#16	U = V =	1766222-1	Crimp, postmate PCB tail, standard	
		1766223-1	PCB tail, premate	
		1766818-1	PCB tail, postmate	
	X = Y =	1766193-1	Crimp, standard	
	T =	1766195-1	Crimp, premate	
	AA =	1766196-1	Crimp, postmate	
#12	AB =	1766245-1	PCB tail, standard	
	AC =		PCB tail, premate	
	AD =		PCB tail, postmate	
	AE =		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	
rimp and 1			movable. PCB tail contacts are non-rem	ovable
Float Mo	unt Sh	oulder Screw		
Part Num		Description		Qty.
1650399		Screw, No 10)-32 UNC 2A	
1650401		Screw, M5 x		

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Catalog 6-1773444-7 Dimensions are in inches and

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www.tycoelectronics.com specified. Values in bra are metric equivalents.

Top Assembly Part Number Assigned by Tyco Electronics

> specified. Values in brackets are metric equivalents.

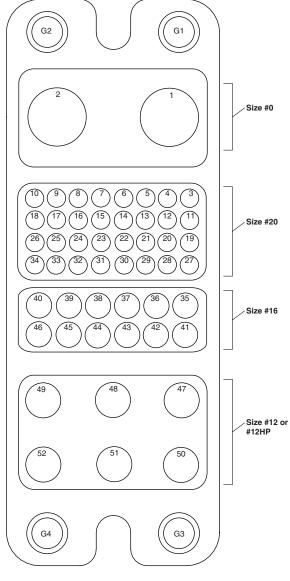
Dimensions are shown for
reference purposes only.USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

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



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

Submit to your local Tyco Electronics Sales Engineer.

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

Size	Re	F.	Part Number	Termination Style & Pin Length	Qty.
	Α	=	6648405-1	Crimp	
	В	=	6648418-1	Probe Proof, crimp	
	С	=	6648416-1	1/4-20 Internal Thread	
	D	=	6648428-1	M6 x 1 Internal Thread	
#0	Е	=	6648419-1	Probe Proof, 1/4-20 Internal Thread	
#0	F	=	6648429-1	Probe Proof, M6 x 1 Internal Thread	
	G	=	6648417-1	1/4-20 External Thread	
J	Н	=	6648430-1	M6 x 1 External Thread	
	J	=	6648420-1	Probe Proof, 1/4-20 External Thread	
	Κ	=	6648431-1	Probe Proof, M6 x 1 External Thread	
	L	=	1648325-1	Crimp	
#20	Μ	=	6648301-1	Compliant Press-fit	
	Ν	=	1648382-1	PCB Tail	
	Р	=	6648319-1	Crimp	
#16	Q	=	6648306-1	Compliant Press-fit	
	R	=	6648383-1	PCB Tail	
	S	=	6648318-1	Crimp	
#12	Т	=	6648304-1	Compliant Press-fit	
	U	=	6648374-1	PCB Tail	
#10 Het	V	=	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	W	=	6648305-1	Compliant Press-fit, Hot Plug	
riuy	Х	=	1648387-1	PCB Tail, Hot Plug	

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

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

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Catalog 6-1773444-7
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Top Assembly Part Number Assigned by Tyco Electronics

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

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 Dimensions are shown for C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

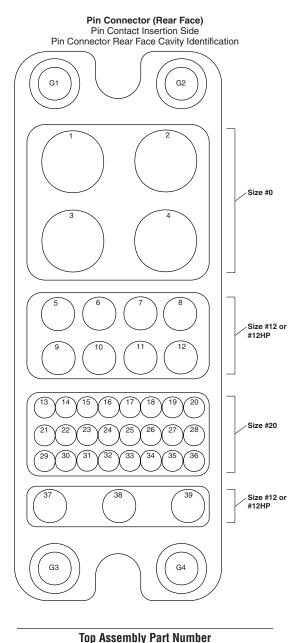
19

UK: +44-(0) 800-267-666

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.
- 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.



Assigned by Tyco Electronics

ENTER CUSTOME	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.

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

Size	Ref.	Part Number	Termination Style & Pin Length	Qty
	A =	1766811-1	Crimp	
	B =	1766819-1	Probe Proof, crimp	
	C =	1766230-1	1/4-20 Internal Thread	
	D =	1766274-1	M6 x 1 Internal Thread	
#0	E =	1766269-1	Probe Proof, 1/4-20 Internal Thread	
#0	F =	1766275-1	Probe Proof, M6 x 1 Internal Thread	
	G =	1766268-1	1/4-20 External Thread	
	H =	1766231-1	M6 x 1 External Thread	
-	J =	1766270-1	Probe Proof, 1/4-20 External Thread	
	K =	1766276-1	Probe Proof, M6 x 1 External Thread	
	L =	1650155-1	Crimp, standard	
	M =	1650161-1	Crimp, premate	
#20	N =	1650162-2	Crimp, postmate	
# 2 0	P =	1650283-1	PCB tail, standard	
	Q =	1650065-1	PCB tail, premate	
	R =	1650226-1	PCB tail, postmate	
	S =	1766193-1	Crimp, standard	
	T =	1766195-1	Crimp, premate	
#12	U =	1766196-1	Crimp, postmate	
π1 Ζ	V =	1766245-1	PCB tail, standard	
	W =	1766250-1	PCB tail, premate	
	X =	1766249-1	PCB tail, postmate	
	Y =	1650153-2	Crimp, standard, Hot Plug	
#12 Hot	Z =	1650156-2	Crimp, premate, Hot Plug	
Plug	AA =	1650060-2	PCB tail, standard, Hot Plug	
	AB =	1650074-3	PCB tail, premate, Hot Plug	

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

Float Mount Shoulder Screw		
Description	Qty.	
Screw, No 10-32 UNC 2A		
Screw, M5 x 0.8		
	Description Screw, No 10-32 UNC 2A	

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

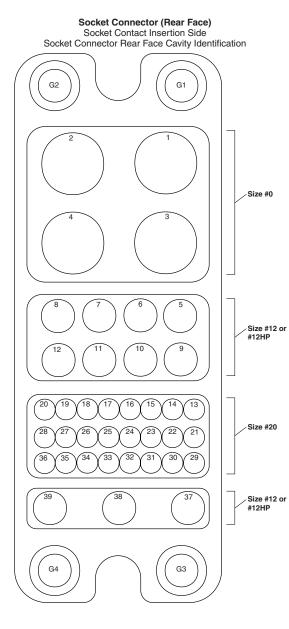
Dimensions are in inches and

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

Double Drawer Connector Socket Side Layout Form

Socket Assembly

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



ENTER CUSTOMER INFORMATION			
Company	Location		
Contact Name	Title		
Telephone	Fax		
Email Address			
I am: D End user D 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
1648578-1	Housing without guides	
	Housing with guides (#6-32 thread)	
	Housing with guides (M3 x 0.5 thread)	

Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	6648405-1	Crimp	
	B =	6648418-1	Probe Proof, crimp	
	C =	6648416-1	1/4-20 Internal Thread	
	D =	6648428-1	M6 x 1 Internal Thread	
#0	E =	6648419-1	Probe Proof, 1/4-20 Internal Thread	
#0	F =	6648429-1	Probe Proof, M6 x 1 Internal Thread	
G H J K	G =	6648417-1	1/4-20 External Thread	
	H =	6648430-1	M6 x 1 External Thread	
	J =	6648420-1	Probe Proof, 1/4-20 External Thread	
	К =	6648431-1	Probe Proof, M6 x 1 External Thread	
1	L =	1648325-1	Crimp	
#20	M =	6648301-1	Compliant Press-fit	
	N =	1648382-1	PCB Tail	
	P =	6648318-1	Crimp	
#12	Q =	6648304-1	Compliant Press-fit	
R	R =	6648374-1	PCB Tail	
#10 11-4	S =	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	T =	6648305-1	Compliant Press-fit, Hot Plug	
riug -	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		

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Catalog 6-1773444-7 Revised 10-07

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

Top Assembly Part Number Assigned by Tyco Electronics

> 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 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

UK: +44-(0) 800-267-666

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₹ Tyco **Electronics** AMP & ELCON Power Connector Layout Forms

DualPower Drawer Connector Pin Side Layout Form

Pin Assembly

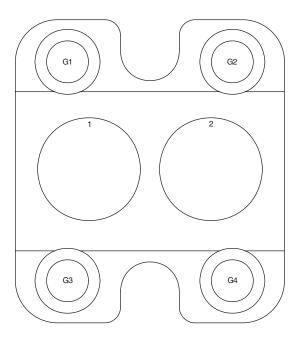
- 1. Choose one housing from the **Pin Housing Selection Menu** table. Place an X in the appropriate guide pin circles, if guide pins are required.
- 2. Write the total quantity of each pin contact you require for each pin assembly in the Qty column of the Pin Contact Selection Menu table.
- 3. Crimp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

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



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

Check

Pin Contact Selection Menu					
Size	Re	f.	Part Number	Termination Style & Pin Length	Qty.
	А	=	1766811-1	Crimp	
	В	=	1766819-1	Probe Proof, crimp	
	С	=	1766230-1	1/4-20 Internal Thread	
	D	=	1766274-1	M6 x 1 Internal Thread	
#0	Е	=	1766269-1	Probe Proof, 1/4-20 Internal Thread	
#0	F	=	1766275-1	Probe Proof, M6 x 1 Internal Thread	
	G	=	1766268-1	1/4-20 External Thread	
	Η	=	1766231-1	M6 x 1 External Thread	
	J	=	1766270-1	Probe Proof, 1/4-20 External Thread	
	Κ	=	1766276-1	Probe Proof, M6 x 1 External Thread	

Contacts are removable.

Pin Housing Selection Menu

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

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Top Assembly Part Number Assigned by Tyco Electronics

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

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.

DualPower Drawer Connector Socket Side Layout Form

Socket Assembly

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

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

Submit to your local Tyco Electronics Sales Engineer.

Housing without guides

Housing with guides (#6-32 thread)

Socket Housing Selection Menu

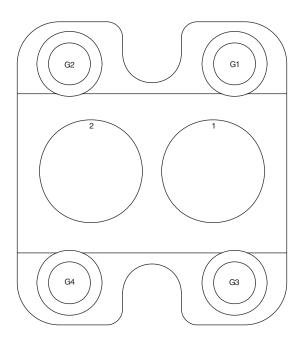
Description

Part Number

1648575-1

Socket Connector (Rear Face) Socket Contact Insertion Side

Socket Connector Rear Face Cavity Identification



	Housing with	n guides (M3 x 0.5 thread)	
ocket (Contact Selection M	enu	
ocket (Size	ontact Selection M Ref. Part Number	enu Termination Style & Pin Length	Qty.
			Qty.
	Ref. Part Number	Termination Style & Pin Length	Qty.

		_	00101101	r robe r robi, ennip	
	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	
	Κ	=	6648431-1	Probe Proof, M6 x 1 External Thread	
	n	=	0040431-1	Probe Proof, Mi6 x T External Thread	

Contacts are removable.

Dimensions are shown for

reference purposes only. Specifications subject

to change.

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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Check

One

Tyco Electronics AMP & ELCON P

QuadPower Drawer Connector Pin Side Layout Form

Pin Assembly

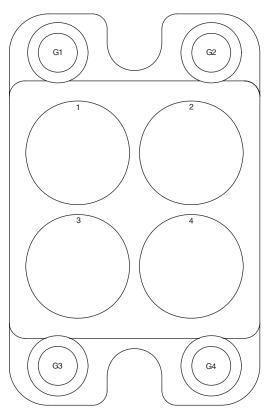
- Choose one housing from the **Pin Housing Selection Menu** table. Place an X in the appropriate guide pin circles, if guide pins are required.
- Write the total quantity of each pin contact you require for each pin assembly in the Qty column of the Pin Contact Selection Menu table.
- 3. Crimp contacts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

ENTER CUSTOMER INFORMATION				
Company	Location			
Contact Name	Title			
Telephone Fax				
Email Address				
I am: □ End user □ Contract manufacturer (end 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
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	
	B =	1766819-1	Probe Proof, crimp	
	C =	1766230-1	1/4-20 Internal Thread	
	D =	1766274-1	M6 x 1 Internal Thread	
#0	E =	1766269-1	Probe Proof, 1/4-20 Internal Thread	
#0	F =	1766275-1	Probe Proof, M6 x 1 Internal Thread	
	G =	1766268-1	1/4-20 External Thread	
	Η =	1766231-1	M6 x 1 External Thread	
	J =	1766270-1	Probe Proof, 1/4-20 External Thread	
	K =	1766276-1	Probe Proof, M6 x 1 External Thread	

Contacts are removable.

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

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Top Assembly Part Number Assigned by Tyco Electronics

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<u> </u>	

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.

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

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AMP & ELCON Power Connector Layout Forms

QuadPower Drawer Connector Socket Side Layout Form

Socket Assembly

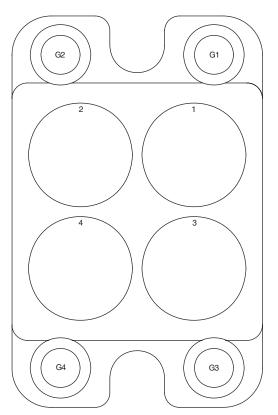
- 1. Choose one housing from the Socket Housing Selection Menu table. Place an X in the appropriate guide pin circles, if guide pins are required.
- 2. Write the total quantity of each socket contact you require for each socket assembly in the Qty column of the Socket Contact Selection Menu table.
-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

ENTER CUSTOMER INFORMATION				
Company	Location			
Contact Name	Title			
Telephone	Fax			
Email Address				
I am: D End user Contract manufacturer (end us	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		Check
Part Number	Description	One
1648574-1	Housing without guides	
	Housing with guides (#6-32 thread)	
	Housing with guides (M3 x 0.5 thread)	

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

Contacts are removable.

reference purposes only. Specifications subject

to change.

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

Top Assembly Part Number Assigned by Tyco Electronics

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

Dimensions are in inches and

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

25

Tyco Electronics AMF

In-Line QuadPower Drawer Connector Pin Side Layout Form

Pin Assembly

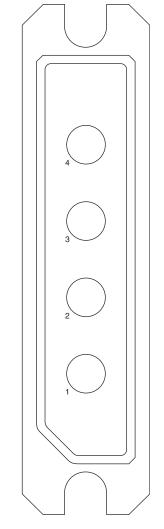
1. Enter company and contact information (at right).

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

Submit to your local Tyco Electronics Sales Engineer.





Pin Housing Part Number
1651493-1

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

Contacts are removable.

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

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

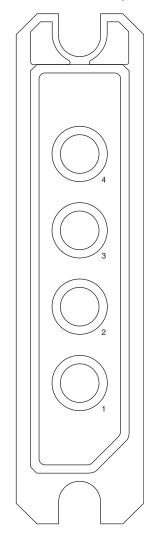
In-Line QuadPower Drawer Connector Socket Side Layout Form

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. Threaded contacts are installed by Tyco Electronics; enter the letter reference of the desired threaded contact in the appropriate contact positions on the drawing: e.g., if you need a size #0 M6 x 1 external thread contact to be installed in contact position #1, write "H" in circle #1.
- 4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

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



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

Submit to your local Tyco Electronics Sales Engineer.

Socket Housing Part Number	
1651404-1	

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

Contacts are removable.

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

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Top Assembly Part Number Assigned by Tyco Electronics

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W5 Power Drawer Connector Pin Side Layout Form

Pin Assembly

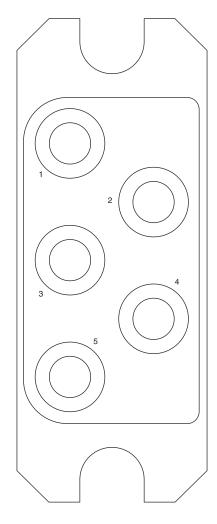
1. Enter company and contact information (at right).

- 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 CUSTOM	ER 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	
6651457-1	

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

Contacts are removable.

Float Mount Shoulder Screw		
Description	Qty.	
Screw, No 8-32 UNC 2A		
Screw, M4 x 0.7		
	Description Screw, No 8-32 UNC 2A	

Top Assembly Part Number Assigned by Tyco Electronics

28

Catalog 6-1773444-7 Revised 10-07

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

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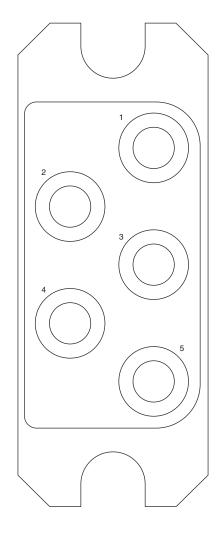
W5 Power Drawer Connector Socket Side Layout Form

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 Menu table.
- 3. Crimp contacts are shipped uninstalled. Threaded contacts are installed by Tyco Electronics; enter the letter reference of the desired threaded contact in the appropriate contact positions on the drawing: e.g., if you need a size #4 1/2-20 external thread contact to be installed in contact position #1, write "B" in circle #1.
- 4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

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



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

Submit to your local Tyco Electronics Sales Engineer.

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	B =	6648435-1	1/4-20 External Thread	
	C =	6648335-1	M5 Internal Thread	

Contacts are removable.

Float Mount Shoulder Screw		
Description	Qty.	
Screw, No 8-32 UNC 2A		
Screw, M4 x 0.7		
	Description Screw, No 8-32 UNC 2A	

Top Assembly Part Number Assigned by Tyco Electronics

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HV8P Drawer Connector Pin Side Layout Form

Pin Assembly

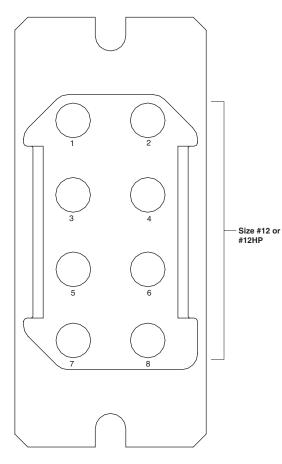
1. Enter company and contact information (at right).

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

Submit to your local Tyco Electronics Sales Engineer.

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



Pin Housing Part Number	
1648127-1 = Fixed Mount	

Pin Conta	Pin Contact Selection Menu		
Size	Ref. Part Number	Termination Style & Pin Length	Qty.
	A = 1766193-1	Crimp, standard	
	B = 1766195-1	Crimp, premate	
#12	C = 1766196-1	Crimp, postmate	
π12	D = 1766245-1	PCB tail, standard	
	E = 1766250-1	PCB tail, premate	
	F = 1766249-1	PCB tail, postmate	
	G = 1650153-2	Crimp, standard, Hot Plug	
#12 Hot	H = 1650156-2	Crimp, premate, Hot Plug	
Plug	J = 1650060-2	PCB tail, standard, Hot Plug	
	K = 1650074-3	PCB tail, premate, Hot Plug	

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

Top Assembly Part Number Assigned by Tyco Electronics

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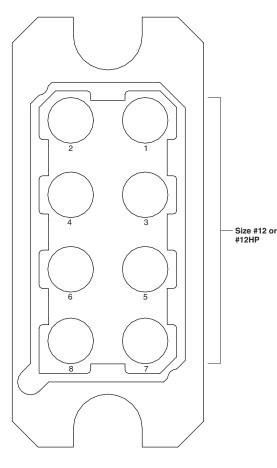
HV8P Drawer Connector Socket Side Layout Form

Socket Assembly

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

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

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



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

Submit to your local Tyco Electronics Sales Engineer.

Socket Housing Part Number	
1648128-1 = Float Mount	
	_

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

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

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

Top Assembly Part Number Assigned by Tyco Electronics

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Dimensions are in inches and

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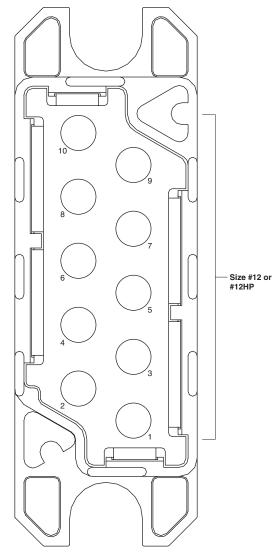
P10S0 Drawer Connector Pin Side Layout Form

Pin Assembly

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

- Write the total quantity of each pin contact you require for each pin assembly in the Qty column of the Pin Contact Selection Menu table.
- 3. Crimp contacts are shipped uninstalled. PCB tail contacts are installed by Tyco Electronics; enter the letter reference of the desired contact in the appropriate contact positions on the drawing: e.g., if you need a 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 CUSTOM	R INFORMATION
Company	Location
Contact Name	Title
Telephone	Fax
Email Address	
I am: D End user D Contract manufacturer (end us	er:)
Signature	Today's Date
	Annual Quantity Required

Submit to your local Tyco Electronics Sales Engineer.

Pin Housing Part Number	
1648568-1	

Pin Contact Selection Menu			
Size	Ref. Part Numbe	r Termination Style & Pin Length	Qty.
	A = 1766193-1	Crimp, standard	
	B = 1766195-1	Crimp, premate	
#12	C = 1766196-1	Crimp, postmate	
π1 Ζ	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 Sh	oulder Screw	
Part Number	Description	Qty.
1650402-1	Screw, No 8-32 UNC 2A	
1650589-1	Screw, M4 x 0.7	

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Top Assembly Part Number Assigned by Tyco Electronics

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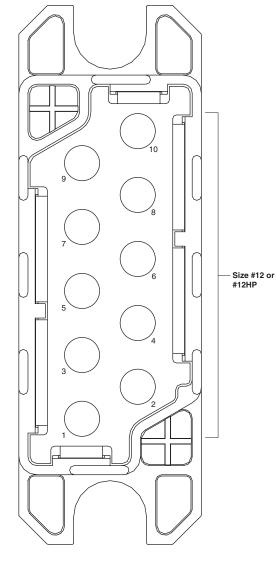
P10S0 Drawer Connector Socket Side Layout Form

Socket Assembly

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

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

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: D End user D Contract manufacturer (end us	er:)
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	B =	6648304-1	Compliant Press-fit	
	C =	6648374-1	PCB Tail	
#40 H.J	D =	1648384-1	Crimp, Hot Plug	
#12 Hot Plua	E =	6648305-1	Compliant Press-fit, Hot Plug	
Tiug	F =	1648387-1	PCB Tail, Hot Plug	

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

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

Top Assembly Part Number Assigned by Tyco Electronics

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P10S22 Drawer Connector Pin Side Layout Form

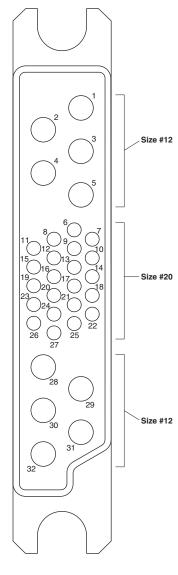
Pin Assembly

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

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

Pin Connector (Rear Face) Pin Contact Insertion Side

Pin Connector Rear Face Cavity Identification



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

Submit to your local Tyco Electronics Sales Engineer.

Pin Housing Part Number
1648211-1

Pin Conta	act Sel	ection Menu		
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1650155-1	Crimp, standard	
	B =	1650161-1	Crimp, premate	
#20	C =	1650162-2	Crimp, postmate	
#20	D =	1650283-1	PCB tail, standard	
	E =	1650065-1	PCB tail, premate	
	F =	1650226-1	PCB tail, postmate	
	G =	1766193-1	Crimp, standard	
	H =	1766195-1	Crimp, premate	
#12	J =	1766196-1	Crimp, postmate	
π1 Δ	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 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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Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

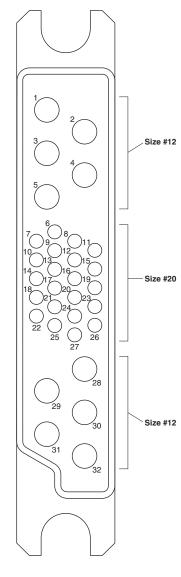
P10S22 Drawer Connector Socket Side Layout Form

Socket Assembly

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

Socket Connector (Rear Face) Socket Contact Insertion Side

Socket Contact Insertion Side Socket Connector Rear Face Cavity Identification



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

Submit to your local Tyco Electronics Sales Engineer.

Socket Housing Part Number	
1648212-1	

Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1648325-1	Crimp	
#20	B =	6648301-1	Compliant Press-fit	
	C =	1648382-1	PCB Tail	
	D =	6648318-1	Crimp	
#12	E =	6648304-1	Compliant Press-fit	
	F =	6648374-1	PCB Tail	
#40 H.J	G =	1648384-1	Crimp, Hot Plug	
#12 Hot Plug	H =	6648305-1	Compliant Press-fit, Hot Plug	
riuy	J =	1648387-1	PCB Tail, Hot Plug	

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

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

Top Assembly Part Number Assigned by Tyco Electronics

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Dimensions are shown for
reference purposes only.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

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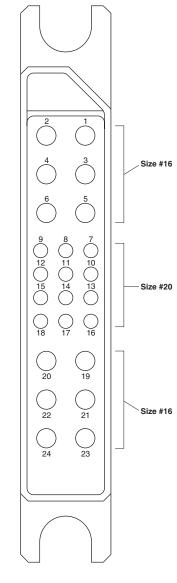
P12S12 Drawer Connector Pin Side Layout Form

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 user:		
Signature	Today's Date	
	Annual Quantity Required	

Submit to your local Tyco Electronics Sales Engineer.

Pin Housing Part Number	
1651202-1	

Pin Conta	act Sel	ection Menu		
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1650155-1	Crimp, standard	
	B =	1650161-1	Crimp, premate	
#20	C =	1650162-2	Crimp, postmate	
#20	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	

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

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

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Top Assembly Part Number Assigned by Tyco Electronics

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www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets 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 Dimensions are shown for

P12S12 Drawer Connector Socket Side Layout Form

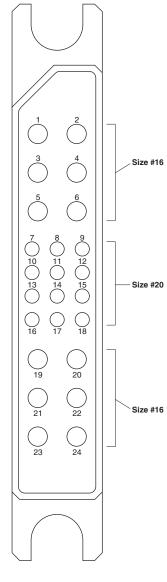
Socket Assembly

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 size #20 PCB tail contact to be installed in contact position #9, write "C" in circle #9.
- 4. Sign, date and send the completed form to your local Tyco Electronics Sales Engineer.

Socket Connector (Rear Face) Socket Contact Insertion Side

Socket Connector Rear Face Cavity Identification



ENTER CUSTOMER INFORMATION		
Company	Location	
Contact Name	Title	
Telephone	Fax	
Email Address	·	
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	
1651203-1	

Socket Contact Selection Menu				
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1648325-1	Crimp	
#20	B =	6648301-1	Compliant Press-fit	
	C =	1648382-1	PCB Tail	
	D =	6648319-1	Crimp	
#16	E =	6648306-1	Compliant Press-fit	
	F =	6648383-1	PCB Tail	

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

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

Top Assembly Part Number Assigned by Tyco Electronics

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

Dimensions are in inches and

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

to change.

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

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POS30 Drawer Connector Pin Side Layout Form

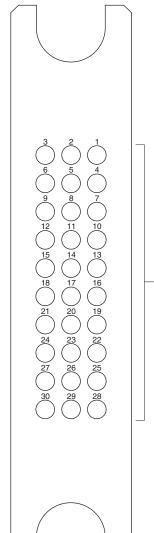
Pin Assembly

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 user:		
Signature	Today's Date	
	Annual Quantity Required	

Submit to your local Tyco Electronics Sales Engineer.

Pin Housing Part Number	
6651204-1	

Pin Conta	act Sel	ection Menu		
Size	Ref.	Part Number	Termination Style & Pin Length	Qty.
	A =	1650155-1	Crimp, standard	
	B =	1650161-1	Crimp, premate	
#20	C =	1650162-2	Crimp, postmate	
π20	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		

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Top Assembly Part Number Assigned by Tyco Electronics

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to change.

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

POS30 Drawer Connector Socket Side Layout Form

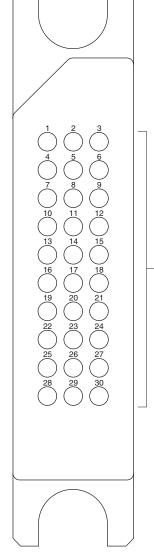
Socket Assembly

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

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

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 (en	nd user:)			
Signature	Today's Date			
	Annual Quantity Required			

Submit to your local Tyco Electronics Sales Engineer.

Socket Housing Part Number
6651205-1

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