

## Section Q: Series 171 MicroStrips Product Selection Guide



### Section R Series 171 MicroStrips Product Selection Guide

#### **Solder Cup MicroStrips**

171-001

Page Q-4



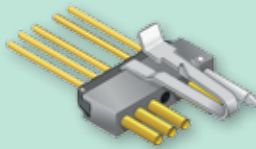
#### **Single Row MicroStrips with Solder Cup Contacts**

Solder cup contacts for termination to #24 to #30 solid or stranded wire. Available in 1 to 30 positions. High performance M83513 TwistPin contact system. Contacts are factory-installed, non-removable and are encapsulated with epoxy. 3 Amp, 600 Vac, -55C to +150C.

#### **Solid Wire MicroStrips**

171-002

Page Q-6



#### **Single Row MicroStrips with Solid Wire**

Factory-terminated to solid copper wire. Available in 1 to 30 positions. Optional pre-tinned leads or standard gold plated wire. High performance M83513 TwistPin contact system. Contacts are factory-installed, non-removable and are encapsulated with epoxy. 3 Amp, 600 Vac, -55C to +150C.

#### **Pre-Wired MicroStrips**

171-003

Page Q-7



#### **Single Row MicroStrips with Insulated Stranded Wire**

Factory-terminated to mil spec high-temperature wire, size #24 to #30. Available in 2 to 30 positions. High performance M83513 TwistPin contact system. Contacts are factory-installed, non-removable and are encapsulated with epoxy. 3 Amp, 600 Vac, -55C to +150C.

#### **Right Angle PCB .050" Spacing**

171-004

Page Q-9



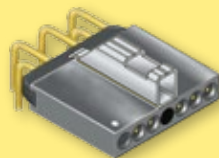
#### **Single Row Right Angle PCB- .050" Board Spacing**

Thru-hole mounting. Gold-plated .020" diameter right angle PC tails are on .050" centers for maximum density. Available in 1 to 30 positions. High performance M83513 TwistPin contact system. Contacts are factory-installed, non-removable and are encapsulated with epoxy. 3 Amp, 600 Vac, -55C to +150C.

#### **Right Angle PCB Staggered**

171-005, 171-006

Page Q-9



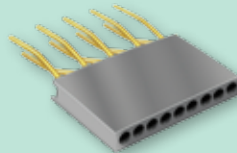
#### **Right Angle PCB- Staggered**

Thru-hole mounting. Gold-plated .020" diameter right angle PC tails are on staggered .050" or .100" spacing between rows. Available in 1 to 30 positions. High performance M83513 TwistPin contact system. Contacts are factory-installed, non-removable and are encapsulated with epoxy. 3 Amp, 600 Vac, -55C to +150C.

#### **Vertical Mount PCB Headers**

171-007

Page Q-9



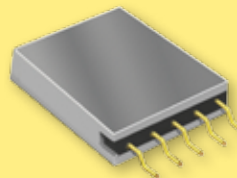
#### **Single Row Vertical PCB**

Thru-hole mounting. Gold-plated .020" diameter PC tails are spread to .100" by .100" centers for easy placement. Available in 1 to 30 positions. High performance M83513 TwistPin contact system. Contacts are factory-installed, non-removable and are encapsulated with epoxy. 3 Amp, 600 Vac, -55C to +150C.

#### **Surface Mount**

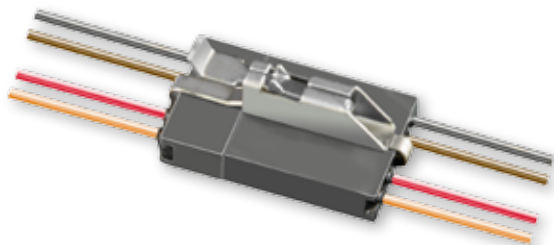
171-008

Page Q-13



#### **Surface Mount PCB- .050" Board Spacing**

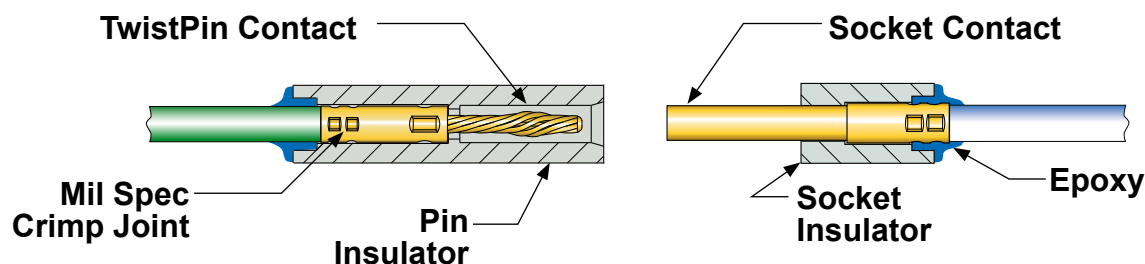
.013" diameter tails are formed to allow soldering to the surface of a PC board or flex circuit. Tails are solder-dipped in 63/37 tin-lead. Available in 1 to 30 positions. High performance M83513 TwistPin contact system. Contacts are factory-installed, non-removable and are encapsulated with epoxy. 3 Amp, 600 Vac, -55C to +150C.



- High Reliability TwistPin Contact System
- #24-30 AWG Wire Size
- .050" Pitch Contact Spacing
- Solder Cup, Pre-Wired or PCB Headers
- 3 Amps, +150C, 600 Vac

### *Series 171 MicroStrips Deliver TwistPin Performance and Durability In an Economical, Space-Saving Single Row Package*

Series 171 MicroStrips are intended for high reliability board-to-wire I/O and wire-to-wire applications. These non-environmental strips are typically used inside ruggedized equipment where moisture ingress is not a factor. The MicroStrip connector provides significant advantages compared to commercial-grade headers and jumpers. The rugged, high force twistpin contact accepts up to #24 gage wire, the current rating is 3 Amps, the voltage rating is 600 Vac, and the temperature rating is -55C to +150C. The Series 171 strip connector meets all applicable requirements of MIL-DTL-83513. Choose solder cup, pre-wired, or printed circuit board versions. A stainless steel latch provides secure coupling.



### *Why Choose TwistPins?*

The Glenair TwistPin contact system provides a superior wire attachment compared to stamped contacts. This translates into lower long-term contact resistance—and it does so under extreme conditions of vibration, shock and high heat. Plus, TwistPin connectors offer design flexibility without the penalty of longer delivery, setup charges or minimum order quantities.

#### Materials and Finishes

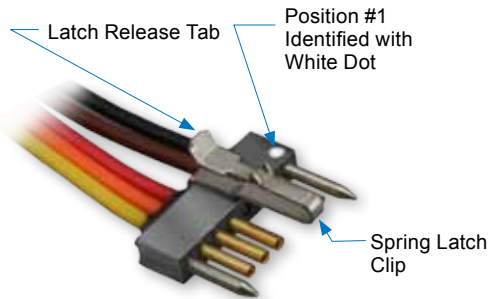
Contacts	Copper alloy, 50 µinch gold plated
Insulators	Liquid crystal polymer (LCP)
Latch	Stainless Steel
Guide Pin	Stainless Steel
Potting Compound	Epoxy
Insulated Wire	Per MIL-W-22759/11 and /33
Solid Wire, PC Tails	Per A-A-59551, gold plated or tinned

#### Specifications

Current Rating	3 Amps
Contact Resistance	8 milliohms maximum
Dielectric Withstanding Voltage	600 Vac sea level
Insulation Resistance	5000 megohms minimum
Operating Temperature	-55° C. to +150° C.
Shock	300 g.
Vibration	37 g.

## About Spring Latches, Guide Pins and Mounting Holes

Optional stainless steel latch clips provide secure mating when subjected to shock and vibration. A single center latch is suitable for most applications (Fig. 1 and Fig. 2). Dual end latches are also available (Fig. 3). The spring latch is always installed on the socket strip (Fig. 1). The latch receiver is installed on the pin strip (Fig. 2). To unmate the connectors, simply press the release tab while pulling the connectors apart. MicroStrips are available with stainless steel guide pins. A single guide pin provides circuit polarization. A guide pin on each end (Fig. 2) helps to align connectors when mating and prevents damage to contacts. For most applications the preferred configuration is a single center latch with no guide pins. Mounting holes are now available (Fig.3). Attach strips to circuit boards with size 0-80 screws (customer-supplied).



**Figure 1**

**Socket Strip with Center Latch**  
**Part Number 171-003-8S-6K7-18-PBCL**

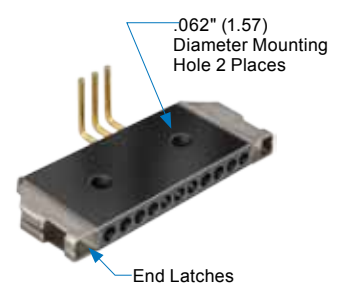
Spring latch installed in the center cavity of the socket MicroStrip. Ordering Code CL for Center Latch. This strip has 5 circuits plus one cavity for the latch and two for the guide pins, for a total of 8 cavities. Note the white paint dot on the insulator. This dot indicates position #1. The wire color code system is "10 Color Repeating". Wire #1 is black, followed by brown, red, orange, yellow, green, blue, violet, grey and white.



**Figure 2**

**Pin Strip with Center Latch and Guide Pins at Both ends.**  
**Part Number 171-003-8P-6K7-18-PBCL**

Spring latch installed in the center cavity and guide pins installed in end cavities. This strip has five electrical circuits plus two positions for guide pins and one position for the latch for a total of eight cavities. The stainless steel guide pins are installed into the end cavities of the socket strip. The end cavities of the pin strip are opened up to accept the mating guide pins.



**Figure 3**

**Right Angle PCB Header with End Latches and Mounting Holes.**  
**Part Number 171-004-11P-.250-BLMH.**

Latch clips installed into the end cavities of the MicroStrip. Ordering Code BL for Both end Latches. Note the mounting holes. These holes allow the strip to be attached to a circuit board. Each mounting hole requires three cavities. The board mount leads are formed into a single row on .050" centers.

## About Board Mount Strips

Aerospace customers typically use MicroStrips for high reliability board-to-wire I/O applications. The pin strip is usually configured with right angle thru-hole PC tails. The strip is bonded to the PC board with epoxy, or attached to the board with screws installed in optional mounting holes. Surface mount and vertical mount versions are also available.

**Figure 4**

**Right Angle Pin Strip with Staggered PC Tails, Mounting Holes and Center Latch**  
**P/N 171-005-23P-.125-CLMH**

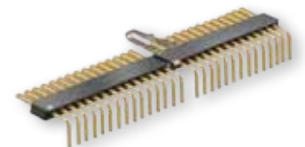
Note that the board mounted strip has 23 cavities called out in the part number, but the mating socket strip (Fig. 1) has 17. Also note that three cavities are taken up by the mounting holes, and the position #1 white dot moves to the first electrical position.



**Figure 5**

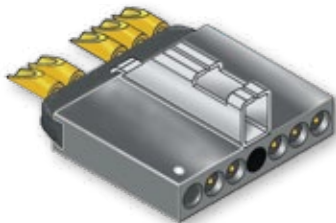
**Right Angle Socket Strip with Single Row PC Tails and Center Latch**  
**P/N 171-004-30S-.172-CL**

This full length strip has 30 positions including the latch. The PC tails are formed into a single row on .050 (1.27) centers.





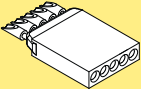
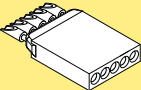
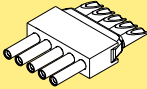
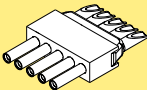
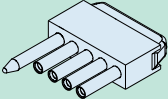
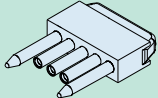
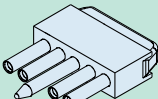
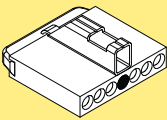
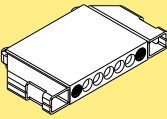
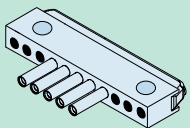
## Series 171 MicroStrips Single Row Strips with Solder Cups 171-001



171-001-7PS-P1CL

### Single Row Solder Cup MicroStrips

These .050" pitch single row solder cup microstrips accept #26 to #30 gage wire with standard contacts and up to size #24 wire with "large bore" contacts. Contacts are factory-installed and potted. Available with 1 to 30 contacts. Optional stainless steel latching mechanism prevents de-mating. Guide pins provide circuit polarization. Contacts are twistpin type and are gold-plated. Housing is molded LCP thermoplastic. Suitable for high-reliability applications where long-term resistance to fretting corrosion is a necessity. 3 A., 600 Vac, -55C to +150C.

How To Order Solder Cup Microstrips					
Series	Number of Cavities	Contact Gender and Solder Cup Size	Optional Guide Pin	Optional Latch	Optional Mounting Holes
<b>171-001</b> Single Row MicroStrip, .050" Contact Spacing, Solder Cup Contacts	<b>-1 to -30</b> Total number of cavities including guide pins, latches and mounting holes.  The number of cavities equals the number of electrical circuits plus 1 cavity for each guide pin and latch, plus 6 cavities for the mounting hole option.	<b>PS</b> Pin Contacts, Size #26 Solder Cup   <b>NS</b> Pin Contacts, Size #24 Solder Cup   <b>SS</b> Socket Contacts, Size #26 Solder Cup   <b>TS</b> Socket Contacts, Size #24 Solder Cup 	<b>Omit</b> For No Guide Pin  <b>-P1</b> Guide Pin in Cav. #1   <b>-PB</b> Guide Pin at Both Ends   <b>-P(X)</b> Replace (X) with guide pin location. P3 shown below: 	<b>Omit</b> For No Latch  <b>CL</b> Center Latch   <b>BL</b> Latch at Both Ends 	<b>Omit</b> For No Mounting Holes  <b>MH</b> Mounting Holes    The three cavities on each end are filled with epoxy. Two .062" (1.57mm) holes are cross-drilled to allow for attachment to a mounting surface.
<b>Sample Part Number</b>					
<b>171-001</b>	<b>- 7</b>	<b>PS</b>	<b>- P1</b>	<b>CL</b>	

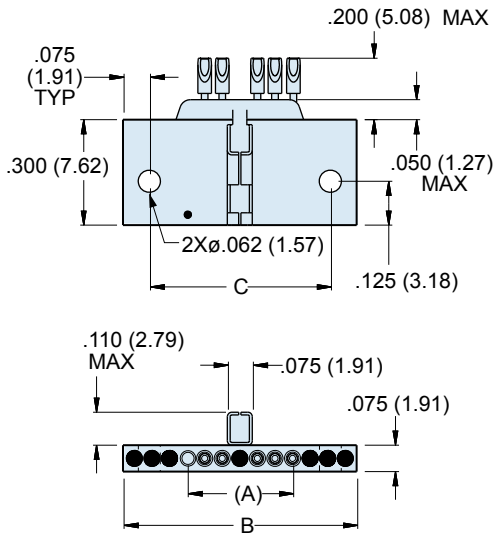


# Series 171 MicroStrips Single Row Solder Cup Strips 171-001

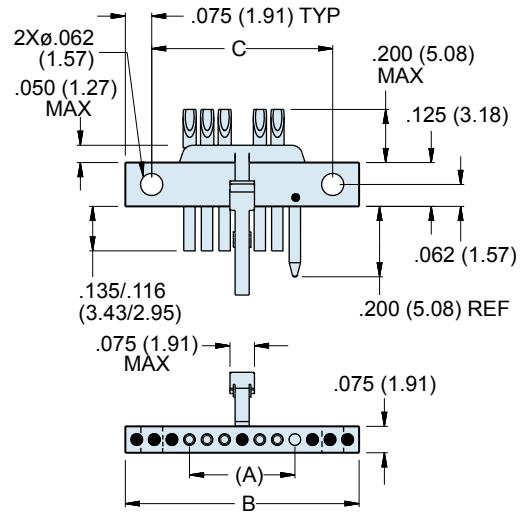


Micro-D  
Latching  
MicroStrips

## PIN CONNECTOR



## SOCKET CONNECTOR

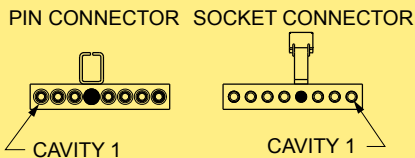


## Dimensions

# of Cavities	(A)		B Max.		C		# of Cavities	(A)		B Max.		C	
	In.	mm.	In.	mm.	In.	mm.		In.	mm.	In.	mm.	In.	mm.
1	-	-	.085	2.16	N/A	N/A	16	.750	19.05	.835	21.21	.650	16.51
2	.050	1.27	.135	3.43	N/A	N/A	17	.800	20.32	.885	22.48	.700	17.78
3	.100	2.54	.185	4.70	N/A	N/A	18	.850	21.59	.935	23.75	.750	19.05
4	.150	3.81	.235	5.97	N/A	N/A	19	.900	22.86	.985	25.02	.800	20.32
5	.200	5.08	.285	7.24	N/A	N/A	20	.950	24.13	1.035	26.29	.850	21.59
6	.250	6.35	.335	8.51	N/A	N/A	21	1.000	25.40	1.085	27.56	.900	22.86
7	.300	7.62	.385	9.78	.200	5.08	22	1.050	26.67	1.135	28.83	.950	24.13
8	.350	8.89	.435	11.05	.250	6.35	23	1.100	27.94	1.185	30.10	1.000	25.4
9	.400	10.16	.485	12.32	.300	7.62	24	1.150	29.21	1.235	31.37	1.050	26.67
10	.450	11.43	.535	13.59	.350	8.89	25	1.200	30.48	1.285	32.64	1.100	27.94
11	.500	12.70	.585	14.86	.400	10.16	26	1.250	31.75	1.335	33.91	1.150	29.21
12	.550	13.97	.635	16.13	.450	11.43	27	1.300	33.02	1.385	35.18	1.200	30.48
13	.600	15.24	.685	17.40	.500	12.7	28	1.350	34.29	1.435	36.45	1.250	31.75
14	.650	16.51	.735	18.67	.550	13.97	29	1.400	35.56	1.485	37.72	1.300	33.02
15	.700	17.78	.785	19.94	.600	15.24	30	1.450	36.83	1.535	38.99	1.350	34.29

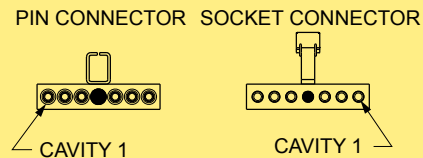
## Center Latch Locations

### Even Number of Cavities



Latch placed on next lower cavity prior to centerline.  
Latch position = (# of Cavities) ÷ 2.

### Odd Number of Cavities

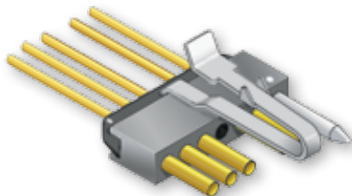


Latch placed in cavity on centerline.  
Latch Position = (# of Cavities+1) ÷ 2.





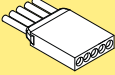
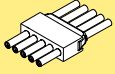
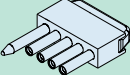
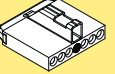
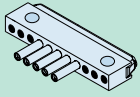
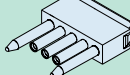
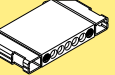
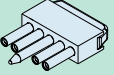
## Series 171 MicroStrips Single Row Strips with Solid Wire 171-002



171-002-7S-5C4-1.000-P1CL

### MicroStrips with Solid Wire

These .050" pitch single row microstrips are factory-crimped to gold-plated single strand copper wire. Available with 1 to 30 contacts. Can be used for PCB header. Solder-dipped versions have 63/37 tin-lead solder. Optional latching mechanism provides secure connection. Guide pins provide circuit polarization. Contacts are twistpin type and are gold-plated. Housing is molded LCP thermoplastic. Suitable for high-reliability applications where long-term resistance to fretting corrosion is a necessity. 3 A., 600 Vac, -55C to +150C.

How To Order Microstrips With Solid Wire										
Series	Number of Cavities	Contact Type	Wire Gage	Wire Type	Wire Finish	Wire Length (Inches)	Optional Guide Pin	Optional Latch	Optional Mounting Holes	
<b>171-002</b> Single Row MicroStrip, .050" Contact Spacing, Solid Wire	<b>-1 TO -30</b> Total Number of Cavities including guide pins, latches and mounting holes.  The number of cavities equals the number of electrical circuits plus 1 cavity for each guide pin and latch, plus 6 cavities for the mounting hole option.	<b>P</b> Pin Contacts 	<b>-4</b> #24 AWG	<b>C</b> Single Strand Copper	<b>3</b> Solder Dipped in 63/37 Tin-Lead	<b>.125</b> <b>.250</b> <b>.500</b> <b>1.000</b> <b>1.500</b> <b>2.000</b>	<b>Omit</b> For No Guide Pin	<b>Omit</b> For No Latch	<b>Omit</b> For No Mounting Holes	
		<b>S</b> Socket Contacts 	<b>-5</b> #25 AWG	A-A-59551 Type S	<b>4</b> Gold-plated	Wire Length In Inches	<b>-P1</b> Guide Pin in Cav. #1 	<b>CL</b> Center Latch 	<b>MH</b> Mounting Holes 	
			<b>-6</b> #26 AWG				<b>-PB</b> Guide Pin at Both Ends 	<b>BL</b> Latch at Both Ends 	The three cavities on each end are filled with epoxy. Two .062" (1.57mm) holes are cross-drilled to allow for attachment to a mounting surface.	
						<b>-P(X)</b> Replace (X) with guide pin location. P3 shown below: 				
<b>Sample Part Number</b>										
<b>171-002</b>	<b>-7</b>	<b>S</b>	<b>-5</b>	<b>C</b>	<b>4</b>	<b>-1.000</b>	<b>-P1</b>	<b>CL</b>		

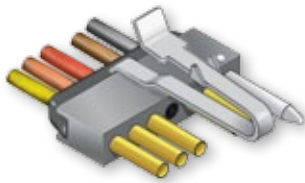


# Series 171 MicroStrips Single Row Strips with Insulated Wire

171-003



Micro-D  
Latching  
MicroStrips

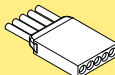
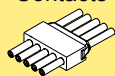
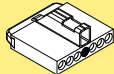
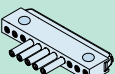
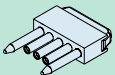
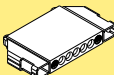
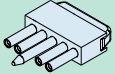


171-003-7P-6K7-18-P1CL

## Single Row MicroStrips with Insulated Stranded Wire

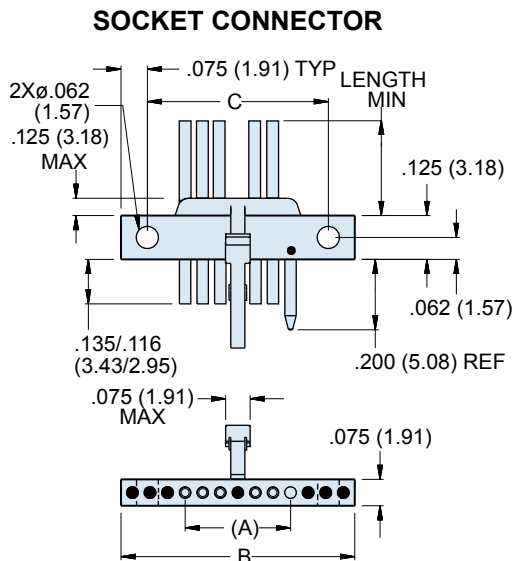
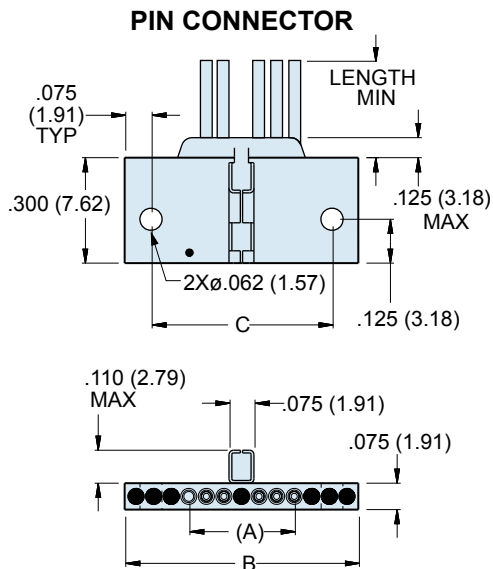
These .050" pitch single row microstrips are factory-terminated to military-grade hookup wire. Crimp termination. Available with 1 to 30 contacts. Optional latching mechanism prevents de-mating. Guide pins provide circuit polarization. Contacts are twistpin type and are gold-plated. Housing is molded LCP thermoplastic. Available with standard M22759/11 ETFE wire, or upgrade to M22759/33 space grade wire. Suitable for high-reliability applications where long-term resistance to fretting corrosion is a necessity. 3 A., 600 Vac, -55C to +150C. Wire is 600V, 200C.

### How To Order Single Row Microstrips With Insulated Wire

Series	Number of Cavities	Contact Type	Wire Gage	Wire Type	Wire Color Code	Wire Length	Optional Guide Pin	Optional Latch	Optional Mounting Holes	
<b>171-003</b> Single Row MicroStrip, .050" Contact Spacing, Pre-Wired, Stranded Wire	<b>-1 TO -30</b> Total Number of Cavities including guide pins, latches and mounting holes.  The number of cavities equals the number of electrical circuits plus 1 cavity for each guide pin and latch, plus 6 cavities for the mounting hole option.	<b>P</b> Pin Contacts    <b>S</b> Socket Contacts  	<b>-4</b> #24 AWG	<b>K</b> Standard Wire	<b>1</b> White	Wire Length In Inches  Example: <b>-18</b> 18 inches	<b>Omit</b> For No Guide Pin	<b>Omit</b> For No Latch	<b>Omit</b> For No Mounting Holes	
			<b>-6</b> #26 AWG	Extruded PTFE per M22759/11, Silver-Plated Conductors (#30 AWG not available)	<b>5</b> Color-Coded per MIL-STD-681	Wires 1-10 are solid color, 11-up are striped.	<b>-P1</b> Guide Pin in Cav. #1	<b>CL</b> Center Latch  	<b>MH</b> Mounting Holes  	
			<b>-8</b> #28 AWG	<b>J</b> Space Grade Wire	High Strength, Lightweight, Crosslinked Modified ETFE per M22759/33, Silver-Plated Conductors	<b>7</b> 10 Color Repeat	Wires are solid color per MIL-STD-681 color code system. Wires #1, #11, #21 are black, wires #2, #12, #22 are brown, and so on.	<b>-PB</b> Guide Pin at Both Ends  	<b>BL</b> Latch at Both Ends  	The three cavities on each end are filled with epoxy. Two .062" (1.57mm) holes are cross-drilled to allow for attachment to a mounting surface.
			<b>-0</b> #30 AWG	<b>-P(X)</b> Replace (X) with guide pin location. P3 shown below:  						
<b>Sample Part Number</b>										
<b>171-003</b>	<b>-7</b>	<b>P</b>	<b>-6</b>	<b>K</b>	<b>7</b>	<b>-18</b>	<b>-P1</b>	<b>CL</b>		



## Series 171 MicroStrips Single Row Strips with Solid or Stranded Wire 171-002 and 171-003

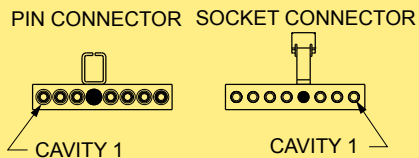


### Dimensions

# of Cavities	(A)		B Max.		C		# of Cavities	(A)		B Max.		C	
	In.	mm.	In.	mm.	In.	mm.		In.	mm.	In.	mm.	In.	mm.
1	-	-	.085	2.16	N/A	N/A	16	.750	19.05	.835	21.21	.650	16.51
2	.050	1.27	.135	3.43	N/A	N/A	17	.800	20.32	.885	22.48	.700	17.78
3	.100	2.54	.185	4.70	N/A	N/A	18	.850	21.59	.935	23.75	.750	19.05
4	.150	3.81	.235	5.97	N/A	N/A	19	.900	22.86	.985	25.02	.800	20.32
5	.200	5.08	.285	7.24	N/A	N/A	20	.950	24.13	1.035	26.29	.850	21.59
6	.250	6.35	.335	8.51	N/A	N/A	21	1.000	25.40	1.085	27.56	.900	22.86
7	.300	7.62	.385	9.78	.200	5.08	22	1.050	26.67	1.135	28.83	.950	24.13
8	.350	8.89	.435	11.05	.250	6.35	23	1.100	27.94	1.185	30.10	1.000	25.4
9	.400	10.16	.485	12.32	.300	7.62	24	1.150	29.21	1.235	31.37	1.050	26.67
10	.450	11.43	.535	13.59	.350	8.89	25	1.200	30.48	1.285	32.64	1.100	27.94
11	.500	12.70	.585	14.86	.400	10.16	26	1.250	31.75	1.335	33.91	1.150	29.21
12	.550	13.97	.635	16.13	.450	11.43	27	1.300	33.02	1.385	35.18	1.200	30.48
13	.600	15.24	.685	17.40	.500	12.7	28	1.350	34.29	1.435	36.45	1.250	31.75
14	.650	16.51	.735	18.67	.550	13.97	29	1.400	35.56	1.485	37.72	1.300	33.02
15	.700	17.78	.785	19.94	.600	15.24	30	1.450	36.83	1.535	38.99	1.350	34.29

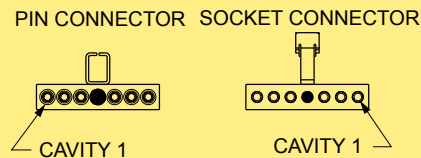
### Center Latch Locations

#### Even Number of Cavities



Latch placed on next lower cavity prior to centerline.  
Latch position = (# of Cavities) ÷ 2.

#### Odd Number of Cavities



Latch placed in cavity on centerline.  
Latch Position = (# of Cavities+1) ÷ 2.



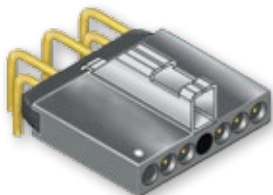
# Series 171 MicroStrips

## Single Row Thru-Hole Board Mount Strips

171-004, 171-005, 171-006, and 171-007



Micro-D  
Latching  
MicroStrips

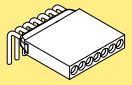
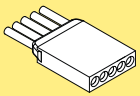
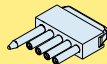
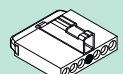
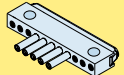
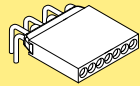
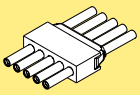
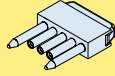
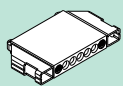
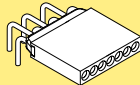
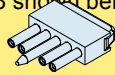
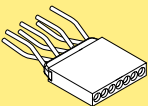


171-006-7P-.125-P1CL

### Single Row Board Mount MicroStrips

These .050" pitch single row PCB thru-hole microstrips are available in four types—vertical mount, right angle single row and two right angle staggered versions. Available with 1 to 30 contacts. PC tails are .020" diameter. Optional latching mechanism prevents de-mating. Guide pins provide circuit polarization. Contacts are twistpin type and are gold-plated. Housing is molded LCP thermoplastic. Suitable for high-reliability applications where long-term resistance to fretting corrosion is a necessity. 3 A., 600 Vac, -55C to +150C.

### How To Order Single Row Thru-Hole PCB MicroStrips

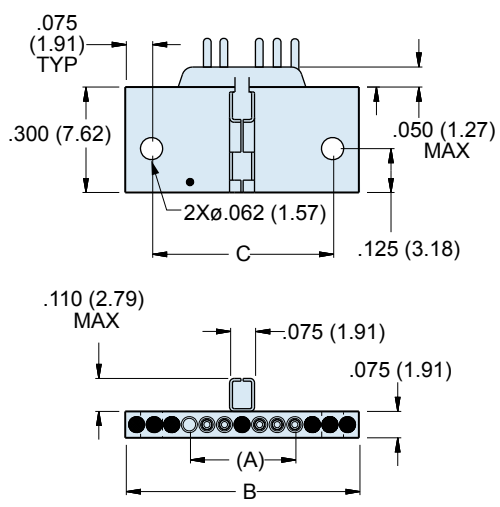
Series	Number of Cavities	Contact Type	PC Tail Length (Inches)	Optional Guide Pin	Optional Latch	Optional Mounting Holes
<b>171-004</b> Right Angle, Single Row PC Tails 	<b>-1 TO -30</b> Total Number of Cavities including guide pins, latches and mounting holes.  The number of cavities equals the number of electrical circuits plus 1 cavity for each guide pin and latch, plus 6 cavities for the mounting hole option.	<b>P</b> Pin Contacts 	.080 .110 .125 .150 .172 .190 .250 Tail Length In Inches	<b>Omit</b> For No Guide Pin  <b>-P1</b> Guide Pin in Cav. #1 	<b>Omit</b> For No Latch  <b>CL</b> Center Latch 	<b>Omit</b> For No Mounting Holes  <b>MH</b> Mounting Holes 
<b>171-005</b> Right Angle, Two Row PC Tails with .050" Between Rows 	The number of cavities equals the number of electrical circuits plus 1 cavity for each guide pin and latch, plus 6 cavities for the mounting hole option.	<b>S</b> Socket Contacts 	Tail Length In Inches	<b>-PB</b> Guide Pin at Both Ends 	<b>BL</b> Latch at Both Ends 	The three cavities on each end are filled with epoxy. Two .062" (1.57mm) holes are cross-drilled to allow for attachment to a mounting surface.
<b>171-006</b> Right Angle, Two Row PC Tails with .100" Between Rows 				<b>-P(X)</b> Replace (X) with guide pin location. P3 shown below: 		
<b>171-007</b> Vertical Mount 						
<b>Sample Part Number</b>						
<b>171-006</b>	<b>-7</b>	<b>P</b>	<b>-.125</b>	<b>-P1</b>	<b>CL</b>	



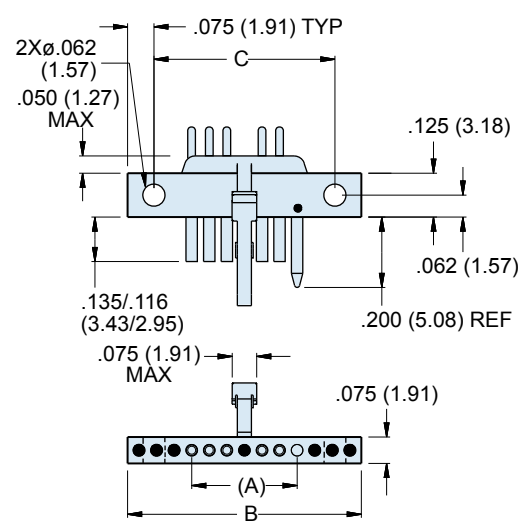
# MWS MicroStrips Single Row Thru-Hole Board Mount Strips

171-004, 171-005, 171-006, and 171-007

### PIN CONNECTOR



### SOCKET CONNECTOR

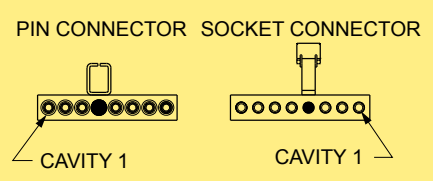


### Dimensions

# of Cavities	(A)		B Max.		C		# of Cavities	(A)		B Max.		C	
	In.	mm.	In.	mm.	In.	mm.		In.	mm.	In.	mm.	In.	mm.
1	-	-	.085	2.16	N/A	N/A	16	.750	19.05	.835	21.21	.650	16.51
2	.050	1.27	.135	3.43	N/A	N/A	17	.800	20.32	.885	22.48	.700	17.78
3	.100	2.54	.185	4.70	N/A	N/A	18	.850	21.59	.935	23.75	.750	19.05
4	.150	3.81	.235	5.97	N/A	N/A	19	.900	22.86	.985	25.02	.800	20.32
5	.200	5.08	.285	7.24	N/A	N/A	20	.950	24.13	1.035	26.29	.850	21.59
6	.250	6.35	.335	8.51	N/A	N/A	21	1.000	25.40	1.085	27.56	.900	22.86
7	.300	7.62	.385	9.78	.200	5.08	22	1.050	26.67	1.135	28.83	.950	24.13
8	.350	8.89	.435	11.05	.250	6.35	23	1.100	27.94	1.185	30.10	1.000	25.4
9	.400	10.16	.485	12.32	.300	7.62	24	1.150	29.21	1.235	31.37	1.050	26.67
10	.450	11.43	.535	13.59	.350	8.89	25	1.200	30.48	1.285	32.64	1.100	27.94
11	.500	12.70	.585	14.86	.400	10.16	26	1.250	31.75	1.335	33.91	1.150	29.21
12	.550	13.97	.635	16.13	.450	11.43	27	1.300	33.02	1.385	35.18	1.200	30.48
13	.600	15.24	.685	17.40	.500	12.7	28	1.350	34.29	1.435	36.45	1.250	31.75
14	.650	16.51	.735	18.67	.550	13.97	29	1.400	35.56	1.485	37.72	1.300	33.02
15	.700	17.78	.785	19.94	.600	15.24	30	1.450	36.83	1.535	38.99	1.350	34.29

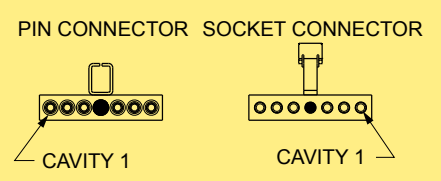
### Center Latch Locations

#### Even Number of Cavities



Latch placed on next lower cavity prior to centerline.  
 Latch position = (# of Cavities) ÷ 2.

#### Odd Number of Cavities



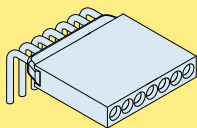
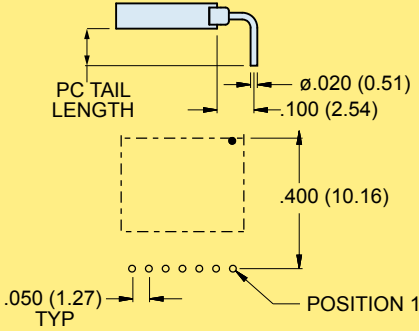
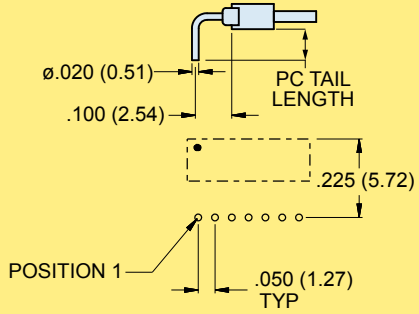
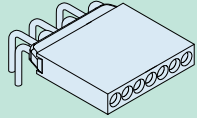
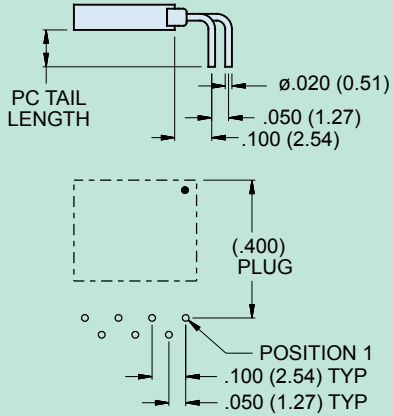
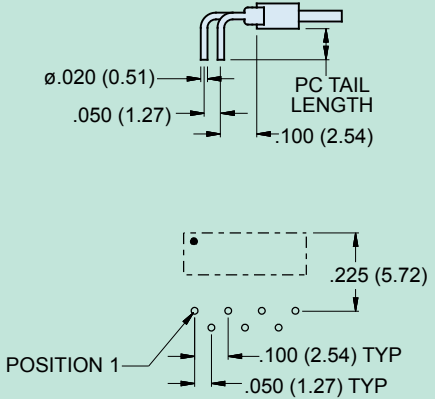
Latch placed in cavity on centerline.  
 Latch Position = (# of Cavities+1) ÷ 2.

Series 171 MicroStrips  
Single Row Board Mount Strips  
PCB layouts: 171-004 and 171-005



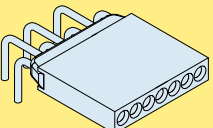
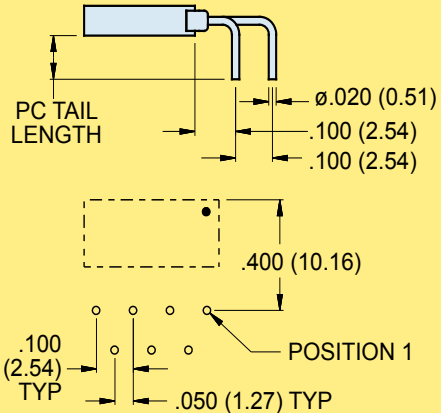
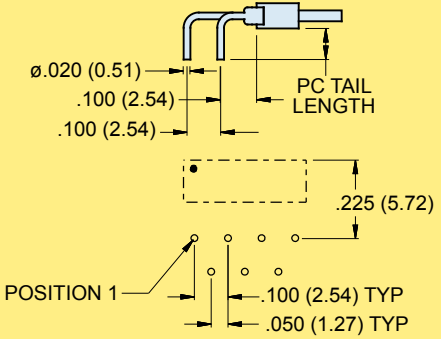
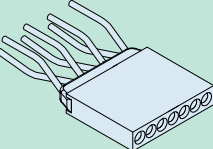
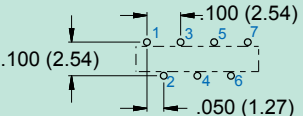
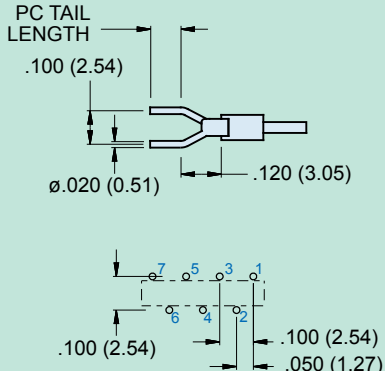
Micro-D  
Latching  
MicroStrips

PRINTED CIRCUIT BOARD LAYOUTS

TYPE	PIN CONNECTOR	SOCKET CONNECTOR
<p><b>171-004</b></p>  <p><b>Right Angle Single Row .050" (1.27) Centers</b></p>	 <p>PC TAIL LENGTH</p> <p><math>\phi .020 (0.51)</math></p> <p>.100 (2.54)</p> <p>.400 (10.16)</p> <p>.050 (1.27) TYP</p> <p>POSITION 1</p>	 <p><math>\phi .020 (0.51)</math></p> <p>.100 (2.54)</p> <p>PC TAIL LENGTH</p> <p>.225 (5.72)</p> <p>POSITION 1</p> <p>.050 (1.27) TYP</p>
<p><b>171-005</b></p>  <p><b>Right Angle Staggered .050" (1.27) Offset</b></p>	 <p>PC TAIL LENGTH</p> <p><math>\phi .020 (0.51)</math></p> <p>.050 (1.27)</p> <p>.100 (2.54)</p> <p>(.400) PLUG</p> <p>POSITION 1</p> <p>.100 (2.54) TYP</p> <p>.050 (1.27) TYP</p>	 <p><math>\phi .020 (0.51)</math></p> <p>.050 (1.27)</p> <p>PC TAIL LENGTH</p> <p>.100 (2.54)</p> <p>.225 (5.72)</p> <p>POSITION 1</p> <p>.100 (2.54) TYP</p> <p>.050 (1.27) TYP</p>



**PRINTED CIRCUIT BOARD LAYOUTS**

TYPE	PIN CONNECTOR	SOCKET CONNECTOR
<p><b>171-006</b></p>  <p><b>Right Angle Staggered .100" (2.54) Offset</b></p>		
<p><b>171-007</b></p>  <p><b>Vertical Mount .100" (2.54) Spacing</b></p>		

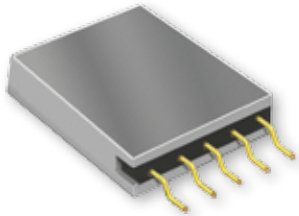


# Series 171 MicroStrips Single Row Surface Mount Strips

171-008



Micro-D  
Latching  
MicroStrips

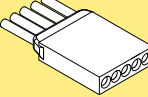
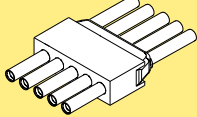
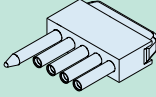
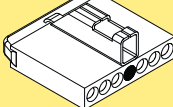
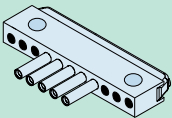
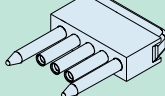
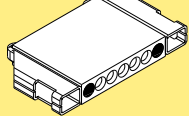
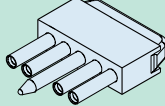


171-008-5P

## Single Row Surface Mount MicroStrips

These .050" pitch single row surface mount microstrips are available with 1 to 30 contacts. SMT tails are .013" diameter and are solder dipped in 63/37 tin-lead. Optional latching mechanism provides secure connection. Optional guide pins provide circuit polarization. Contacts are twistpin type and are gold-plated. Housing is molded LCP thermoplastic. Suitable for high-reliability applications where long-term resistance to fretting corrosion is a necessity. 3 A., 600 Vac, -55C to +150C.

### How To Order Surface Mount Strips

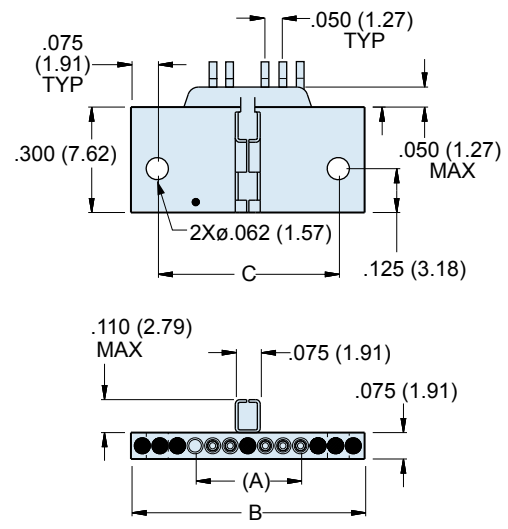
Series	Number of Cavities	Contact Type	Optional Guide Pin	Optional Latch	Optional Mounting Holes
<b>171-008</b> Single Row MicroStrip, .050" Contact Spacing, Surface Mount Tails	<b>-1 to -30</b> Total number of cavities including guide pins, latches and mounting holes.  The number of cavities equals the number of electrical circuits plus 1 cavity for each guide pin and latch, plus 6 cavities for the mounting hole option.	<b>P</b> Pin Contacts 	<b>Omit</b> For No Guide Pin	<b>Omit</b> For No Latch	<b>Omit</b> For No Mounting Holes
		<b>S</b> Socket Contacts 	<b>-P1</b> Guide Pin in Cav. #1 	<b>CL</b> Center Latch 	<b>MH</b> Mounting Holes 
			<b>-PB</b> Guide Pin at Both Ends 	<b>BL</b> Latch at Both Ends 	The three cavities on each end are filled with epoxy. Two .062" (1.57mm) holes are cross-drilled to allow for attachment to a mounting surface.
			<b>-P(X)</b> Replace (X) with guide pin location. P3 shown below: 		
<b>Sample Part Number</b>					
<b>171-008</b>	<b>-5</b>	<b>P</b>			



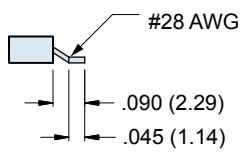


# Series 171 MicroStrips Single Row Surface Mount Strips 171-008

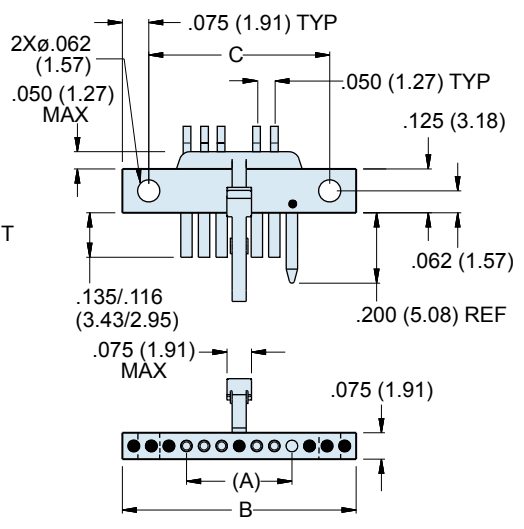
## PIN CONNECTOR



### TYPICAL SURFACE MOUNT CONFIGURATION



## SOCKET CONNECTOR

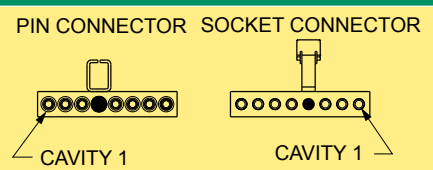


## Dimensions

# of Cavities	(A)		B Max.		C		# of Cavities	(A)		B Max.		C	
	In.	mm.	In.	mm.	In.	mm.		In.	mm.	In.	mm.	In.	mm.
1	-	-	.085	2.16	N/A	N/A	16	.750	19.05	.835	21.21	.650	16.51
2	.050	1.27	.135	3.43	N/A	N/A	17	.800	20.32	.885	22.48	.700	17.78
3	.100	2.54	.185	4.70	N/A	N/A	18	.850	21.59	.935	23.75	.750	19.05
4	.150	3.81	.235	5.97	N/A	N/A	19	.900	22.86	.985	25.02	.800	20.32
5	.200	5.08	.285	7.24	N/A	N/A	20	.950	24.13	1.035	26.29	.850	21.59
6	.250	6.35	.335	8.51	N/A	N/A	21	1.000	25.40	1.085	27.56	.900	22.86
7	.300	7.62	.385	9.78	.200	5.08	22	1.050	26.67	1.135	28.83	.950	24.13
8	.350	8.89	.435	11.05	.250	6.35	23	1.100	27.94	1.185	30.10	1.000	25.4
9	.400	10.16	.485	12.32	.300	7.62	24	1.150	29.21	1.235	31.37	1.050	26.67
10	.450	11.43	.535	13.59	.350	8.89	25	1.200	30.48	1.285	32.64	1.100	27.94
11	.500	12.70	.585	14.86	.400	10.16	26	1.250	31.75	1.335	33.91	1.150	29.21
12	.550	13.97	.635	16.13	.450	11.43	27	1.300	33.02	1.385	35.18	1.200	30.48
13	.600	15.24	.685	17.40	.500	12.7	28	1.350	34.29	1.435	36.45	1.250	31.75
14	.650	16.51	.735	18.67	.550	13.97	29	1.400	35.56	1.485	37.72	1.300	33.02
15	.700	17.78	.785	19.94	.600	15.24	30	1.450	36.83	1.535	38.99	1.350	34.29

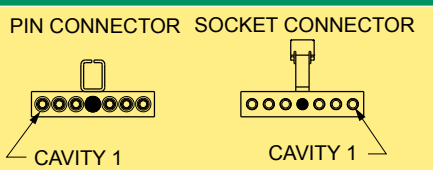
## Center Latch Locations

### Even Number of Cavities



Latch placed on next lower cavity prior to centerline.  
Latch position = (# of Cavities) ÷ 2.

### Odd Number of Cavities



Latch placed in cavity on centerline.  
Latch Position = (# of Cavities+1) ÷ 2.

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**Glenair Power  
Products Group**  
25 Village Lane  
Wallingford, CT  
06492

Telephone:  
203-741-1115  
Facsimile:  
203-741-0053  
sales@glenair.com

### Glenair UK Ltd

40 Lower Oakham Way  
Oakham Business Park  
P.O. Box 37, Mansfield  
Notts, NG18 5BY England

Telephone:  
44-1623-638100  
Facsimile:  
44-1623-638111  
sales@glenair.co.uk

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7000 North Lawndale Avenue  
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Telephone:  
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Facsimile:  
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### Glenair Nordic AB

Gustav III : S Boulevard 46  
S - 169 27 Solna  
Sweden

Telephone:  
46-8-50550000  
Facsimile:  
46-8-50550001  
sales@glenair.se

### Glenair Electric GmbH

Siemensstrasse 9  
D-61449 Steinbach  
Germany

Telephone:  
49-6171-5905-0  
Facsimile:  
49-6171-5905-90  
germany@glenair.com

### Glenair Iberica

C/ La Vega, 16  
45612 Velada  
Spain

Telephone:  
34-925-89-29-88  
Facsimile:  
34-925-89-29-87  
sales@glenair.es

### Glenair Italia S.R.L.

Via Santi, 1  
20037 Paderno Dugnano  
Milano, Italy

Telephone:  
39-02-9108-2121  
Facsimile:  
39-02-9904-3565  
sales-italia@glenair.it

### Glenair France SARL

7, Avenue Parmentier  
Immeuble Central Parc #2  
31200 Toulouse  
France

Telephone:  
33-5-34-40-97-40  
Facsimile:  
33-5-61-47-86-10  
sales@glenair.fr

