

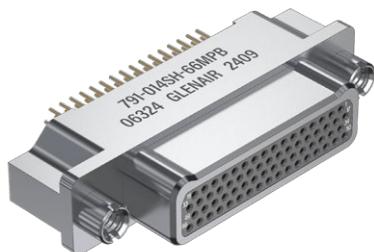
# MICRO-CRIMP RECTANGULAR CONNECTORS

## Series 791 Scoop-Proof



### 791-014

#### PCB Plug, Straight Tails



- ◆ Straight PCB termination
- ◆ Socket contacts

791-014 plug has straight PC tail socket contacts for thru-hole printed circuit board termination. PC tails are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Available in forty insert arrangements with up to 102 contacts. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- Aerospace-grade ultraminiature connector with scoop-proof duo-lobe shell
- Epoxy-sealed PCB terminals
- 40 insert arrangements with M39029-type contacts
- Environmental

INSERT ARRANGEMENTS				
Insert Arrangement	No. of Contacts			
	#23	#16	#12	#8
<b>A-5</b>	5			
<b>B-2P2</b>		2		
<b>B-9</b>	9			
<b>C-13</b>	13			
<b>D-15</b>	15			
<b>D-3P3</b>		3		
<b>D-7P2</b>	5	2		
<b>E-11P2</b>	9	2		
<b>E-19</b>	19			
<b>E-7P3</b>	4	3		
<b>F-14P3</b>	11	3		
<b>F-15P2</b>	13	2		
<b>F-23</b>	23			
<b>F-5P5</b>		5		
<b>G-13P2</b>	11		2	
<b>G-21P1</b>	20		1	
<b>G-3P3</b>			3	
<b>G-33</b>	33			
<b>H-10P4</b>	6		4	
<b>H-29P7</b>	22	7		
<b>H-36P2</b>	34		2	
<b>H-51P1</b>	50		1	
<b>H-54P2</b>	52	2		
<b>H-5P5</b>			5	
<b>H-66</b>	66			
<b>J-17P4</b>	13	4		
<b>J-25P2</b>	23	2		
<b>J-33</b>	33			
<b>J-7P7</b>		7		
<b>K-27P4</b>	23	4		
<b>K-35P2</b>	33	2		
<b>K-43</b>	43			
<b>K-9P9</b>		9		
<b>L-22P4</b>	18		4	
<b>L-48P2</b>	46		2	
<b>L-6P6</b>			6	
<b>L-78</b>	78			
<b>M-17P17</b>		17		
<b>M-102</b>	102			
<b>M-4P4</b>				4

HOW TO ORDER	
Sample Part Number	791-014S G-13P2 MT P B B
<b>Basic Part Number</b>	<b>791-014S</b> PCB Plug, Straight Tails, Socket Contacts
<b>Shell Size-Insert Arr.</b>	See "Insert Arrangements" Table
<b>Shell Finish</b>	<p><b>M</b> Electroless Nickel  <b>MT</b> Nickel / PTFE  <b>NF</b> Olive Drab Cadmium  <b>TZ</b> Tin-Zinc  <b>ZR</b> Black Zinc-Nickel</p>
<b>Jackpost Option</b> <i>Table 1</i>	<p><b>N</b> No Jackposts  <b>P</b> Female Jackposts  <b>R1</b> Rear Panel Mount Jackposts .032 (0.81) Panel Thickness  <b>R2</b> Rear Panel Mount Jackposts .050 (1.27) Panel Thickness  <b>R3</b> Rear Panel Mount Jackposts .062 (1.59) Panel Thickness  <b>R4</b> Rear Panel Mount Jackposts .080 (2.03) Panel Thickness  <b>R5</b> Rear Panel Mount Jackposts .093 (2.36) Panel Thickness  <b>R6</b> Rear Panel Mount Jackposts .125 (3.18) Panel Thickness</p>
<b>PC Tail Length</b>	<p><b>A</b> .125 inch (3.2 mm)  <b>B</b> .250 inch (6.4 mm)  <b>C</b> .375 inch (9.5 mm)</p>
<b>Polarization Key Option</b>	Enter Letter Designator for Position <b>A, B, C, D, E, or F</b> per Mod Code 555 (see page B-8 for details) <b>Omit</b> for none

TABLE 1 JACKPOST OPTION



RATINGS	CONSTRUCTION
<ul style="list-style-type: none"> <li>■ Voltage (DWV): size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC</li> <li>■ Current: #23 5A, #16 13A, #12 23A, #8 46A</li> <li>■ Operating temperature: -65 to +150 °C</li> <li>■ Durability: 500 mating cycles</li> <li>■ Shock: 300 g</li> <li>■ Vibration: 20 g random</li> <li>■ Altitude immersion: 75,000 feet</li> <li>■ Ingress protection: IP67</li> </ul>	<ul style="list-style-type: none"> <li>■ Contacts: Copper alloy, gold over nickel finish</li> <li>■ Shell: Aluminum</li> <li>■ Insulator: High performance thermoplastic</li> <li>■ Encapsulant: Epoxy</li> <li>■ Hardware: Stainless steel</li> </ul>

# MICRO-CRIMP RECTANGULAR CONNECTORS

## Series 791 Scoop-Proof

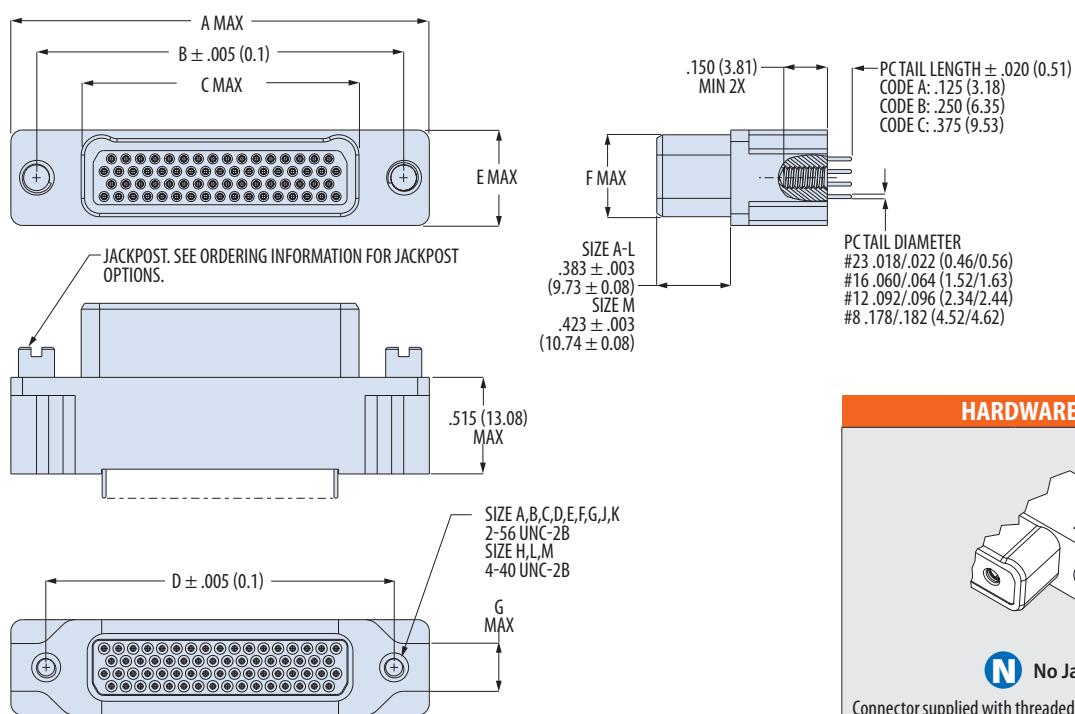
SERIES  
**791**  
Scoop-  
Proof

**791-014**

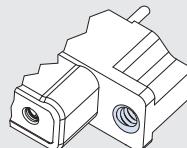
PCB Plug, Straight Tails

- ◆ Straight PCB termination
- ◆ Socket contacts

SERIES 791 SCOOP-PROOF

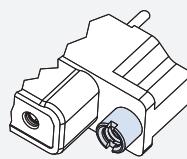


### HARDWARE DETAILS



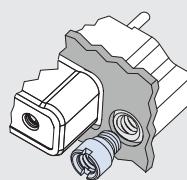
#### N No Jackpost

Connector supplied with threaded holes, .150 (3.8) minimum depth. Shell sizes A-G, J, K have 6-32 UNC-2B thread, sizes H and L have 8-32 UNC-2B thread. Size M has 10-32 UNF-2B thread.



#### P Female Jackposts

Non-removable female jackpost. Shell sizes A-G, J, K have 4-40 UNC-2B thread, sizes H and L have 6-32 UNC-2B thread. Size M has 8-32 UNC-2B thread. 300 series stainless steel, passivated.



#### R1 - R6 Rear Panel Jackposts

For rear panel mounting of connector onto .032-.125 inch (0.81-3.18) thick panels. Install with threadlocking compound. Shell sizes A-G, J, K have 4-40 UNC-2B thread, sizes H and L have 6-32 UNC-2B thread. Size M has 8-32 UNC-2B thread. 300 series stainless steel, passivated. Supplied loosely assembled.

#### Application Note

##### PCB Footprints

See Section **G** for PC board layouts.

Straight tails: pages **G-1 - G-9**

90° tails: pages **G-10 - G-20**

#### Application Note

##### Panel Cutout

See page **B-52** for recommended panel cutout dimensions for connectors.

#### Application Note

##### Polarization Key Positions

See Mod Code 555 pg. B-8 for details

