

# MICRO-CRIMP RECTANGULAR CONNECTORS

## Series 791 Scoop-Proof



### 791-016

#### PCB Plug, 90° Tails

- ◆ Right angle PCB termination
- ◆ Socket contacts

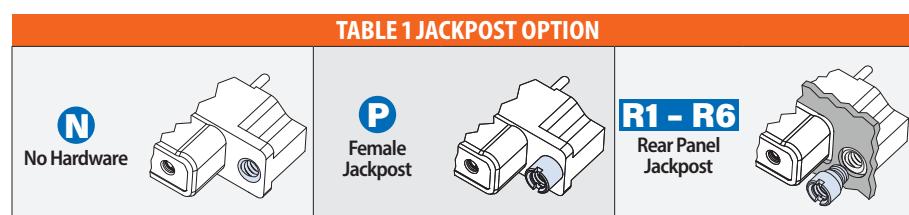


791-016 plug has right angle PC tail socket contacts for thru-hole printed circuit board termination. Contacts are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Available in forty insert arrangements with up to 102 contacts. Contact sizes 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 right angle terminals with EMI shroud
- 40 insert arrangements with M39029-type contacts
- Environmental

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

HOW TO ORDER	
Sample Part Number	791-016S
Basic Part Number	791-016S PCB Plug, 90° Tails, Socket Contacts
Shell Size-Insert Arr.	See "Insert Arrangements" Table
Shell Finish	<p><b>M</b> Electroless Nickel</p> <p><b>MT</b> Nickel / PTFE</p> <p><b>NF</b> Olive Drab Cadmium</p> <p><b>TZ</b> Tin-Zinc</p> <p><b>ZR</b> Black Zinc-Nickel</p>
Jackpost Option Table 1	<p><b>N</b> No Jackposts</p> <p><b>P</b> Female Jackposts</p> <p><b>R1</b> Rear Panel Mount Jackposts .032 (0.81) Panel Thickness</p> <p><b>R2</b> Rear Panel Mount Jackposts .050 (1.27) Panel Thickness</p> <p><b>R3</b> Rear Panel Mount Jackposts .062 (1.59) Panel Thickness</p> <p><b>R4</b> Rear Panel Mount Jackposts .080 (2.03) Panel Thickness</p> <p><b>R5</b> Rear Panel Mount Jackposts .093 (2.36) Panel Thickness</p> <p><b>R6</b> Rear Panel Mount Jackposts .125 (3.18) Panel Thickness</p>
PC Tail Length	<p><b>A</b> .125 inch (3.2 mm)</p> <p><b>B</b> .250 inch (6.4 mm)</p> <p><b>C</b> .375 inch (9.5 mm)</p>
Polarization Key Option	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



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>■ Insulators: High performance thermoplastic</li> <li>■ Encapsulant: Epoxy</li> <li>■ Hardware: Stainless steel</li> </ul>

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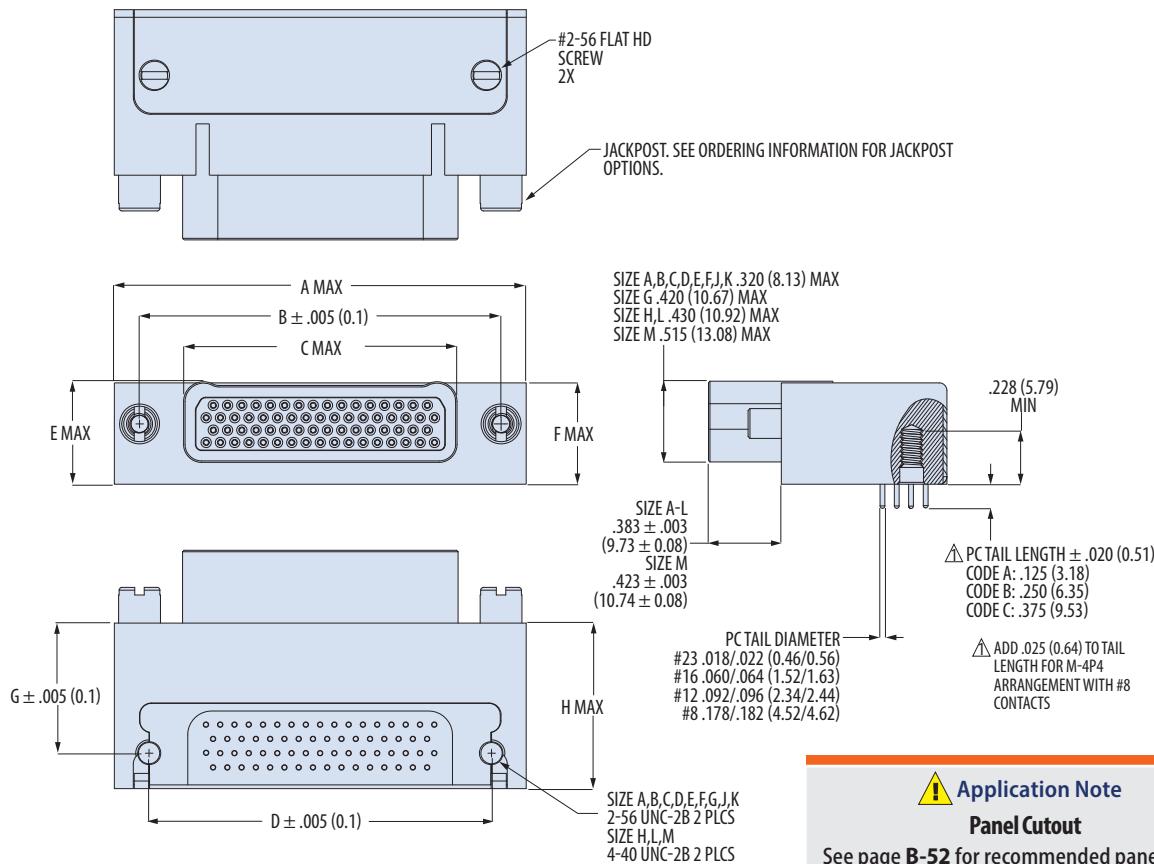
SERIES  
**791**  
Scoop-  
Proof™

### 791-016

#### PCB Plug, 90° Tails

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## SERIES 791 SCOOP-PROOF



#### Application Note

#### Panel Cutout

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

Shell Size	A Max	B ±.005 (0.1)	C Max	D ±.005 (0.1)	E Max	F Max	G ±.005 (0.1)	H Max
	in	mm	in	mm	in	mm	in	mm
A	.995	25.3	.750	19.1	.415	10.5	.565	14.4
B	1.145	29.1	.900	22.9	.565	14.4	.715	18.2
C	1.295	32.9	1.050	26.7	.715	18.2	.865	22.0
D	1.370	34.8	1.125	28.6	.790	20.1	.965	24.5
E	1.520	38.6	1.275	32.4	.940	23.9	1.115	28.3
F	1.670	42.4	1.425	36.2	1.090	27.7	1.265	32.1
G	1.630	41.4	1.388	35.3	1.052	26.7	1.215	30.9
H	2.180	55.4	1.900	48.3	1.442	36.6	1.800	45.7
J	2.045	51.9	1.800	45.7	1.465	37.2	1.615	41.0
K	2.420	61.5	2.175	55.2	1.840	46.7	2.015	51.2
L	2.416	61.4	2.136	54.3	1.678	42.6	2.036	51.7
M	2.580	65.5	2.200	55.9	1.745	44.3	2.200	55.9

#### Application Note

#### PCB Footprints

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

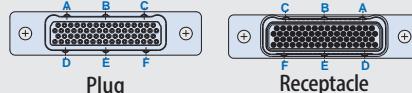
Straight tails: pages **G-1 – G-9**

90° tails: pages **G-10 – G-20**

#### Application Note

#### Polarization Key Positions

See Mod Code 555 pg. B-8 for details



#### JACKPOST DETAILS

#### 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.

#### Female Jackpost



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.