

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	L-78	ZR	R1	A	B
Basic Part Number	791-016S PCB Plug, 90° Tails, Socket Contacts						
Shell Size-Insert Arr.	See “Insert Arrangements” Table						
Shell Finish	<u>M</u> Electroless Nickel						
	<u>MT</u> Nickel / PTFE						
	<u>NF</u> Olive Drab Cadmium						
	<u>TZ</u> Tin-Zinc						
	<u>ZR</u> Black Zinc-Nickel						
Jackpost Option <i>Table 1</i>	<u>N</u> No Jackposts						
	<u>P</u> Female Jackposts						
	<u>R1</u> Rear Panel Mount Jackposts .032 (0.81) Panel Thickness						
	<u>R2</u> Rear Panel Mount Jackposts .050 (1.27) Panel Thickness						
	<u>R3</u> Rear Panel Mount Jackposts .062 (1.59) Panel Thickness						
	<u>R4</u> Rear Panel Mount Jackposts .080 (2.03) Panel Thickness						
	<u>R5</u> Rear Panel Mount Jackposts .093 (2.36) Panel Thickness						
<u>R6</u> Rear Panel Mount Jackposts .125 (3.18) Panel Thickness							
PC Tail Length	<u>A</u> .125 inch (3.2 mm)						
	<u>B</u> .250 inch (6.4 mm)						
	<u>C</u> .375 inch (9.5 mm)						
Polarization Key Option	Enter Letter Designator for Position A, B, C, D, E , or F per Mod Code 555 (see page B-8 for details) Omit for none						

TABLE 1 JACKPOST OPTION			
N No Hardware		P Female Jackpost	
R1 - R6 Rear Panel Jackpost			

RATINGS
<ul style="list-style-type: none"> Voltage (DWV): size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC Current: #23 5A, #16 13A, #12 23A, #8 46A Operating temperature: -65 to +150 °C Durability: 500 mating cycles Shock: 300 g Vibration: 20 g random Altitude immersion: 75,000 feet Ingress protection: IP67

CONSTRUCTION
<ul style="list-style-type: none"> Contacts: Copper alloy, gold over nickel finish Shell: Aluminum Insulators: High performance thermoplastic Encapsulant: Epoxy Hardware: Stainless steel

MICRO-CRIMP RECTANGULAR CONNECTORS

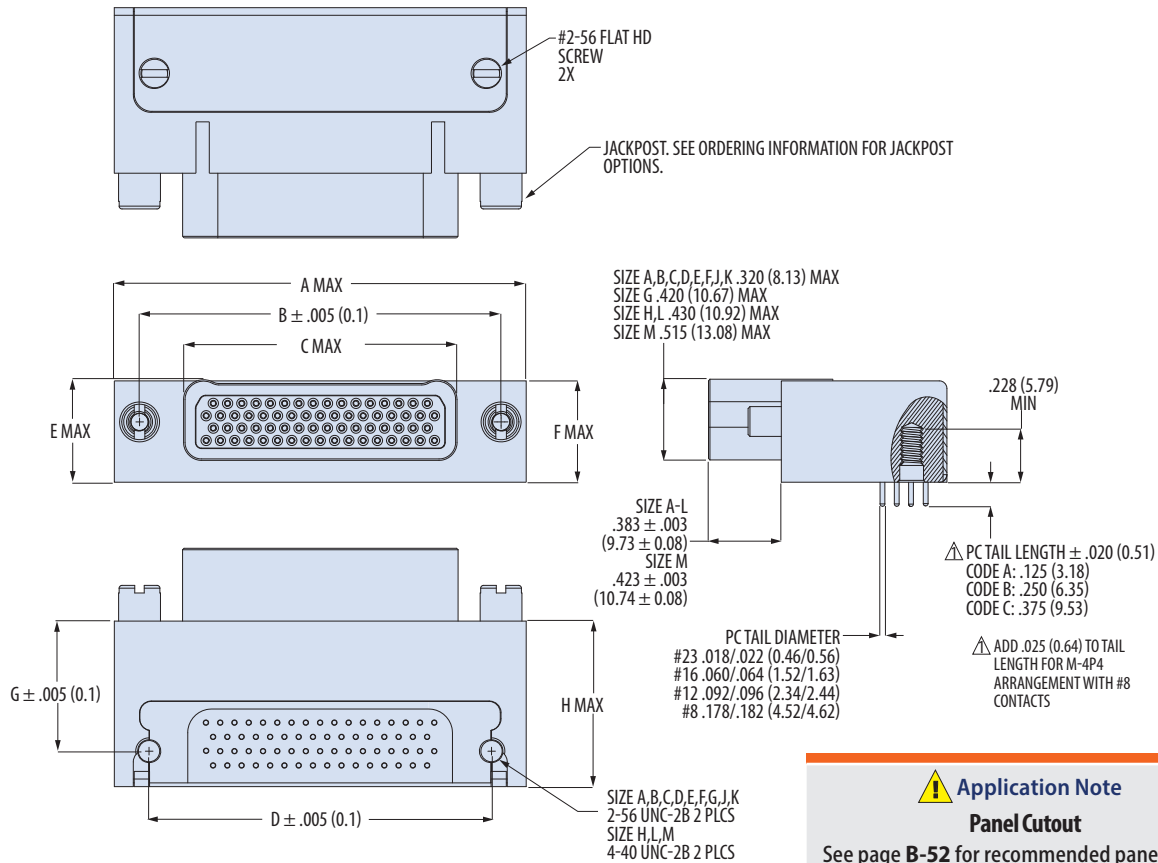
Series 791 Scoop-Proof

SERIES™
791
Scoop-Proof

791-016

PCB Plug, 90° Tails

- ◆ Right angle PCB termination
- ◆ Socket contacts



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	in	mm	in	mm	in	mm	in	mm
A	.995	25.3	.750	19.1	.415	10.5	.565	14.4	.430	10.9	.430	10.9	.610	15.5	.725	18.4
B	1.145	29.1	.900	22.9	.565	14.4	.715	18.2	.430	10.9	.430	10.9	.610	15.5	.725	18.4
C	1.295	32.9	1.050	26.7	.715	18.2	.865	22.0	.430	10.9	.430	10.9	.610	15.5	.725	18.4
D	1.370	34.8	1.125	28.6	.790	20.1	.965	24.5	.430	10.9	.430	10.9	.610	15.5	.725	18.4
E	1.520	38.6	1.275	32.4	.940	23.9	1.115	28.3	.430	10.9	.430	10.9	.610	15.5	.725	18.4
F	1.670	42.4	1.425	36.2	1.090	27.7	1.265	32.1	.430	10.9	.430	10.9	.610	15.5	.725	18.4
G	1.630	41.4	1.388	35.3	1.052	26.7	1.215	30.9	.525	13.3	.520	13.2	.682	17.3	.800	20.3
H	2.180	55.4	1.900	48.3	1.442	36.6	1.800	45.7	.540	13.7	.540	13.7	.691	17.6	.880	22.4
J	2.045	51.9	1.800	45.7	1.465	37.2	1.615	41.0	.430	10.9	.430	10.9	.610	15.5	.725	18.4
K	2.420	61.5	2.175	55.2	1.840	46.7	2.015	51.2	.430	10.9	.430	10.9	.610	15.5	.725	18.4
L	2.416	61.4	2.136	54.3	1.678	42.6	2.036	51.7	.540	13.7	.540	13.7	.691	17.6	.880	22.4
M	2.580	65.5	2.200	55.9	1.745	44.3	2.200	55.9	.628	16.0	.600	15.2	.798	20.3	.995	25.3

Application Note

PCB Footprints

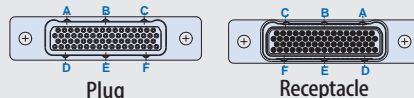
See Section **G** for PC board layouts.

Straight tails: pages **G-1 – G-9**
90° tails: pages **G-10 – G-20**

Application Note

Polarization Key Positions

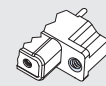
See Mod Code 555 pg. B-8 for details



JACKPOST DETAILS

N

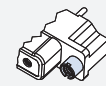
No Jackpost



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

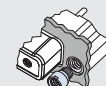
Female Jackpost



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.