

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 790 High-Density

SERIES™
790
HD

790-044

PCB Plug, Straight Tails

- ◆ Straight PCB termination
- ◆ Socket contacts



790-044 plug has straight PC tails 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. Optional gold-plated EMI spring. 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 microminiature connector with M39029-type straight PCB tail contacts
- Epoxy sealed
- 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		790-044S	H-66	M	E	P	A
Basic Part Number	790-044S	PCB Plug, Straight Tails, Socket Contacts					
Shell Size-Insert Arr.	See <i>“Insert Arrangements”</i> Table						
Shell Finish	<u>M Electroless Nickel</u>						
	<u>MT Nickel / PTFE</u>						
	<u>N Olive Drab Cadmium</u>						
	<u>TZ Tin-Zinc</u>						
	<u>ZR Black Zinc-Nickel</u>						
EMI Spring	<u>E EMI Spring <i>Shell finishes M and MT only</i></u>						
	<u>N No EMI Spring</u>						
Jackposts	<u>N No Jackposts</u>						
	<u>P Jackposts</u>						
PC Tail Length	<u>A .125 inch (3.2mm)</u>						
	<u>B .250 inch (6.4mm)</u>						
	<u>C .375 inch (9.5mm)</u>						

JACKPOST OPTIONS

N No Jackposts Connector has blind threaded holes	P Jackposts
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RATINGS

- 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

- Socket Contacts: Copper alloy, gold over nickel finish. Stainless steel hood
- Shell: Aluminum
- Insulator: High performance thermoplastic
- EMI spring: Stainless steel, gold plated
- Encapsulant: Epoxy
- Hardware: Stainless steel

MICRO-CRIMP RECTANGULAR CONNECTORS

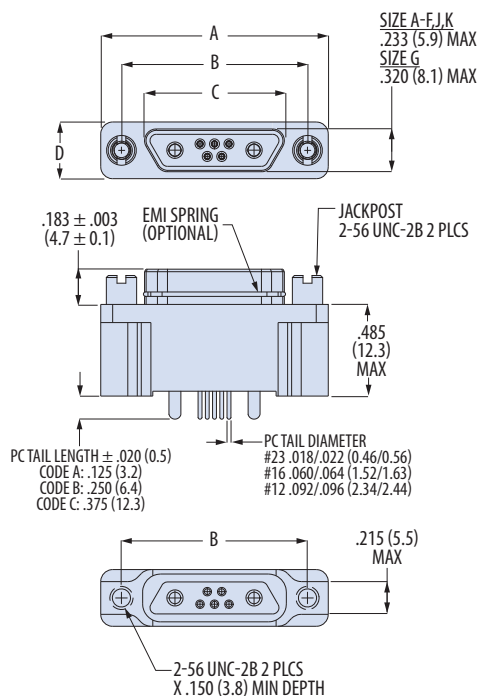
Series 790 High-Density



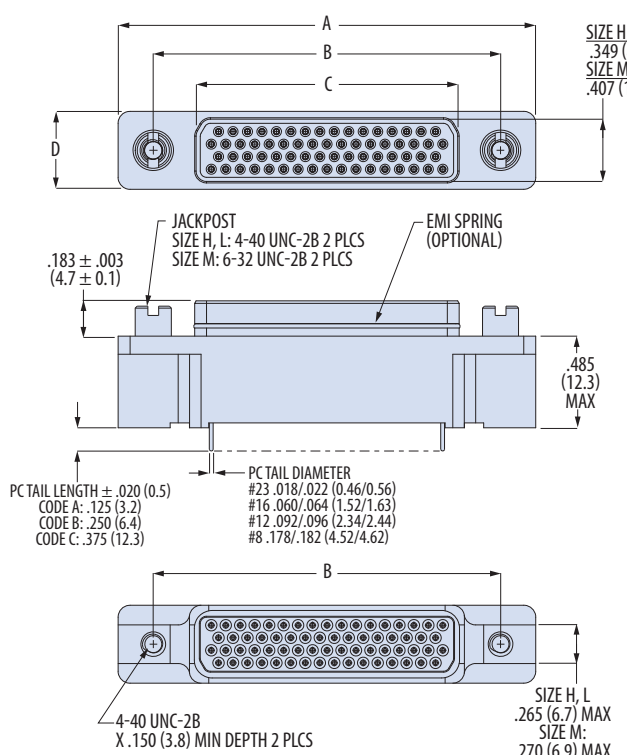
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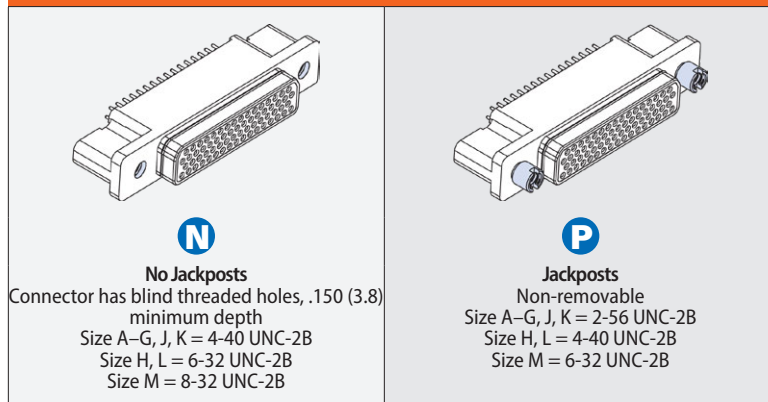
SHELL SIZE A-G, J, K



SHELL SIZE H, L, M

Shell Size	A Max		B ± .005 (0.1)		C Max		D Max	
	in	mm	in	mm	in	mm	in	mm
A	.785	19.9	.565	14.4	.335	8.5	.308	7.8
B	.935	23.7	.715	18.2	.485	12.3	.308	7.8
C	1.085	27.6	.865	22.0	.635	16.1	.308	7.8
D	1.185	30.1	.965	24.5	.735	18.7	.308	7.8
E	1.335	33.9	1.115	28.3	.885	22.5	.308	7.8
F	1.485	37.7	1.265	32.1	1.035	26.3	.308	7.8
G	1.435	36.4	1.215	30.9	1.010	25.7	.395	10.0
H	2.175	55.2	1.800	45.7	1.385	35.2	.410	10.4
J	1.845	46.9	1.615	41.0	1.390	35.3	.308	7.8
K	2.240	56.9	2.015	51.2	1.795	45.6	.308	7.8
L	2.420	61.5	2.036	51.7	1.623	41.2	.410	10.4
M	2.575	65.4	2.200	55.9	1.675	42.5	.470	11.9

JACKPOST OPTIONS



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 Mounting

For panel mounting, specify connector without jackposts. Use rear panel mount jackpost **799-119**. See page **F-20** for jackpost ordering information and panel cutout dimensions.