

MICRO-CRIMP RECTANGULAR CONNECTORS

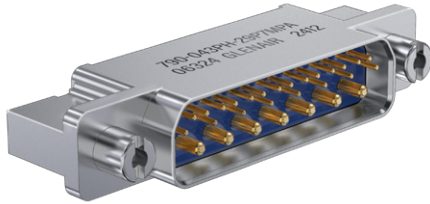
Series 790 High-Density

SERIES™
790
HD

790-043

PCB Receptacle, Straight Tails

- ◆ Straight PCB termination
- ◆ Pin contacts



790-043 receptacle 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. Fluorosilicone face seal provides environmental protection to mating interface. 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 contacts
- Epoxy sealed
- Environmental

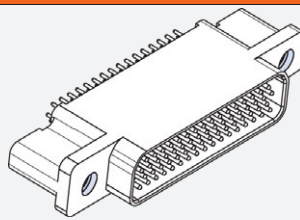
INSERT ARRANGEMENTS

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

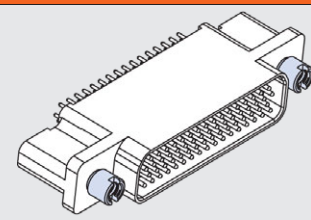
HOW TO ORDER

Sample Part Number		790-043P	K-9P9	M	P	A
Basic Part Number	790-043P	PCB Receptacle, Straight Tails, Pin Contacts				
Shell Size-Insert Arr.	See "Insert Arrangements" Table					
Shell Finish	M	Electroless Nickel				
	MT	Nickel / PTFE				
	N	Olive Drab Cadmium				
	TZ	Tin-Zinc				
	ZR	Black Zinc-Nickel				
Jackposts	N	No Jackposts				
	P	Jackposts				
PC Tail Length	A	.125 inch (3.2 mm)				
	B	.250 inch (6.4 mm)				
	C	.375 inch (9.5 mm)				

JACKPOST OPTIONS



No Jackposts
Connector has blind threaded holes



Jackposts

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

- Contacts: Copper alloy, gold over nickel finish
- Shell: Aluminum
- Insulator: High performance thermoplastic
- Face seal: Fluorosilicone/silicone blend
- Encapsulant: Epoxy
- Hardware: Stainless steel

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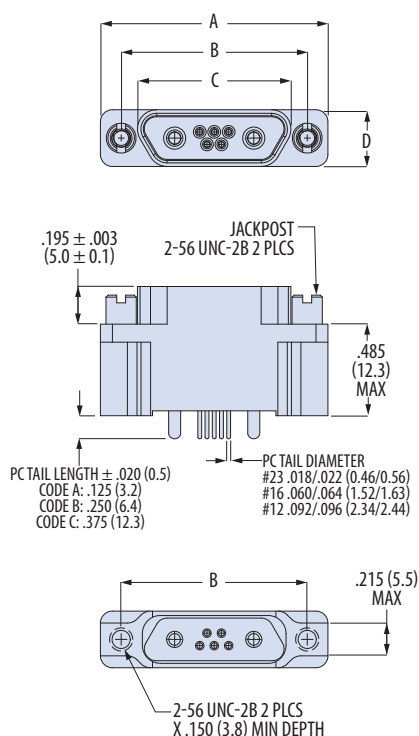
Series 790 High-Density



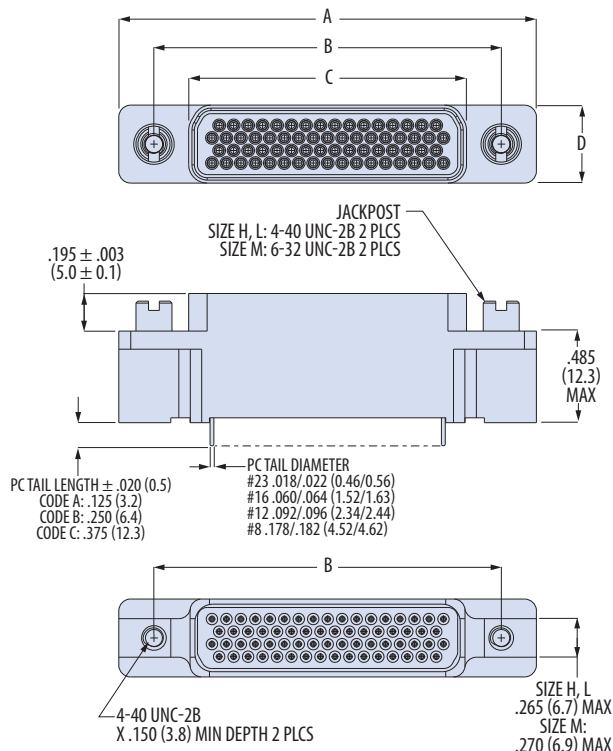
790-043

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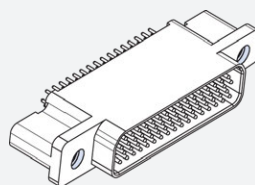
SHELL SIZE A-G, J, K



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	.400	10.2	.308	7.8
B	.935	23.7	.715	18.2	.551	14.0	.308	7.8
C	1.085	27.6	.865	22.0	.701	17.8	.308	7.8
D	1.185	30.1	.965	24.5	.801	20.3	.308	7.8
E	1.335	33.9	1.115	28.3	.951	24.2	.308	7.8
F	1.485	37.7	1.265	32.1	1.101	28.0	.308	7.8
G	1.435	36.4	1.215	30.9	1.079	27.4	.395	10.0
H	2.175	55.2	1.800	45.7	1.450	36.8	.410	10.4
J	1.845	46.9	1.615	41.0	1.460	37.1	.308	7.8
K	2.240	56.9	2.015	51.2	1.860	47.2	.308	7.8
L	2.420	61.5	2.036	51.7	1.686	42.8	.410	10.4
M	2.575	65.4	2.200	55.9	1.745	44.3	.470	11.9

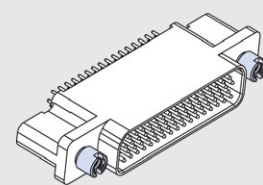
JACKPOST OPTIONS



N

No Jackposts

Connector has blind threaded holes
.150 (3.8) minimum depth
Size A-G, J, K = 4-40 UNC-2B
Size H, L = 6-32 UNC-2B
Size M = 8-32 UNC-2B



P

Jackposts

Non-removable.
Size A-G, J, K = 2-56 UNC-2B
Size H, L = 4-40 UNC-2B
Size M = 6-32 UNC-2B



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.