

MICRO-CRIMP RECTANGULAR CONNECTORS

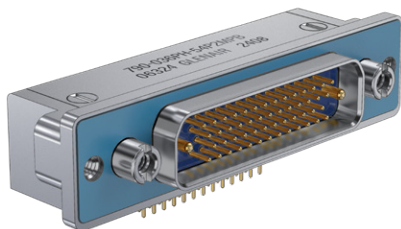
Series 790 High-Density

SERIES™
790
HD

790-036

Panel Receptacle, 90° PC Tails

- ◆ 90° PCB termination
- ◆ Rear panel mount
- ◆ Pin contacts



790-036 receptacle has gold-plated right angle contacts for thru-hole printed circuit board termination. Connector flange has EMI gasket and threaded holes for rear panel mounting. 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.

- Aerospace-grade microminiature PCB connector with M39029-type signal and power contacts
- Epoxy sealed
- EMI gasket and shroud
- Environmental

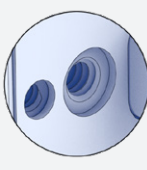
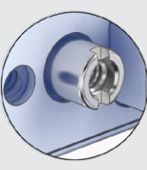
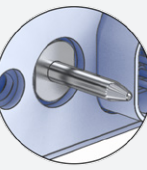
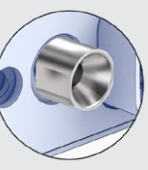
INSERT ARRANGEMENTS

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		790-036P	J-33	M	P	A
Basic Part Number	790-036P 90° PCB Receptacle, 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					
Hardware Option Table 1	N No Hardware <i>Threaded holes</i> G Guide Pins <i>For blind mating</i> P Female Jackposts S Guide Sockets <i>For blind mating</i>					
PC Tail Length	A .125 inch (3.2mm) B .250 inch (6.4mm) C .375 inch (9.5mm)					

TABLE 1 HARDWARE OPTIONS

			
N	P	G	S
No Hardware Threaded Blind Holes	Female Jackpost	Guide Pin	Guide Socket

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
- Panel gasket: Cho-Seal 1287 silver-plated aluminum filled fluorosilicone
- EMI shroud: Aluminum
- Encapsulant: Epoxy
- Hardware: Stainless steel

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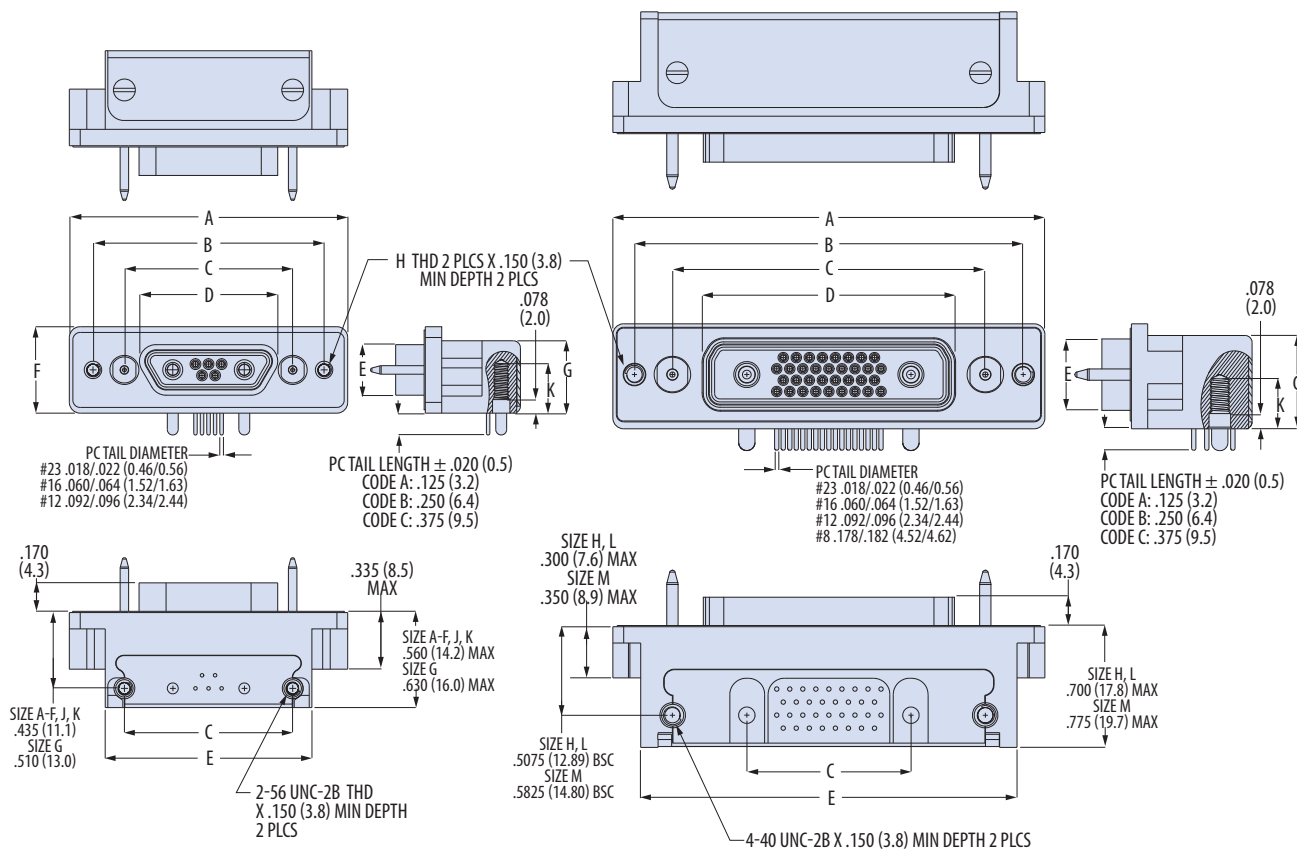
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SHELL SIZE A-G, J, K

SHELL SIZE H, L, M

Shell Size	A Max	B ± .005 (0.1)	C ± .005 (0.1)	D Max	E Max	F Max	G ± .010 (0.3)	H Thd	K Min
	in	mm	in	mm	in	mm	in	mm	in
A	1.211	30.8	.925	23.5	.565	14.4	.401	10.2	.800
B	1.361	34.6	1.075	27.3	.715	18.2	.551	14.0	.950
C	1.511	38.4	1.225	31.1	.865	22.0	.701	17.8	1.100
D	1.611	40.9	1.325	33.7	.965	24.5	.801	20.3	1.200
E	1.761	44.7	1.475	37.5	1.115	28.3	.951	24.2	1.350
F	1.911	48.5	1.625	41.3	1.265	32.1	1.101	28.0	1.500
G	1.855	47.1	1.575	40.0	1.215	30.9	1.079	27.4	1.450
H	2.500	63.5	2.236	56.8	1.800	45.7	1.450	36.8	2.175
J	2.261	57.4	1.975	50.2	1.615	41.0	1.460	37.1	1.850
K	2.661	67.6	2.375	60.3	2.015	51.2	1.860	47.2	2.250
L	2.736	69.5	2.472	62.8	2.036	51.7	1.686	42.8	2.411
M	3.085	78.4	2.770	70.4	2.200	55.9	1.745	44.3	2.575

Application Note

Panel Cutout

See page A-60 for recommended panel cutout dimensions.

Application Note

PCB Footprints

See Section G

Straight tails: pp. G-1 – G-9

90° tails: pp. G-10 – G-20

BLIND MATE TOLERANCES

Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M, N	± .050 (1.3)

HARDWARE DETAILS

N No Hardware Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth	P Female Jackposts Jackposts are non-removable. Size A-G, J, K = 2-56, H, L = 4-40, M = 6-32.	G Guide Pins Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.	S Guide Sockets Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.
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