

MICRO-CRIMP RECTANGULAR CONNECTORS

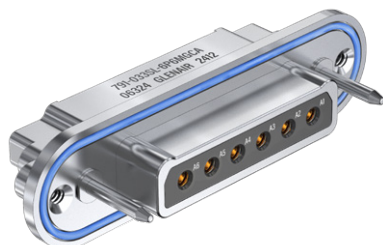
Series 791 Scoop-Proof



791-033

Panel Plug, Straight PC Tails

- ◆ Straight PCB termination
- ◆ Rear panel mount
- ◆ Socket contacts

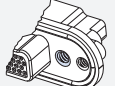
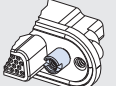
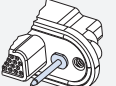
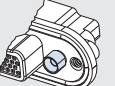


790-033 receptacle has straight PC tails. For rear panel mounting. Mounting flange has blind threaded holes and O-ring for ingress protection. Contact tails are sealed with epoxy. Shell has integral standoff and threaded holes for attachment to PC board. Available in 40 insert arrangements with up to 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 PCB terminals
- 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		791-033S	M-102	M	G	C	A	B
Basic Part Number	790-033S		Panel Plug, Socket Contacts, Straight PCB Tails					
Shell Size-Insert Arr.	See “ <i>Insert Arrangements</i> ” Table							
Shell Finish	M Electroless Nickel							
	MT Nickel / PTFE							
	N Olive Drab Cadmium							
	TZ Tin-Zinc							
	ZR Black Zinc-Nickel							
Hardware Option <i>Table 1</i>	B Guide Bushings <i>For blind mating</i>							
	G Guide Pins <i>For blind mating</i>							
	N No Hardware <i>Threaded holes</i>							
	P Female Jackposts							
Panel O-Ring	N No O-ring							
	C Conductive Fluorosilicone O-ring							
	F Fluorosilicone O-ring							
PC Tail Length	A .125 (3.2)							
	B .250 (6.4)							
	C .375 (9.5)							
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 HARDWARE OPTION			
			
N No Hardware	P Female Jackpost	G Guide Pin	B Guide Bushing

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
■ O-ring: Code F- fluorosilicone, Code C- conductive fluorosilicone
■ Hardware: Stainless steel

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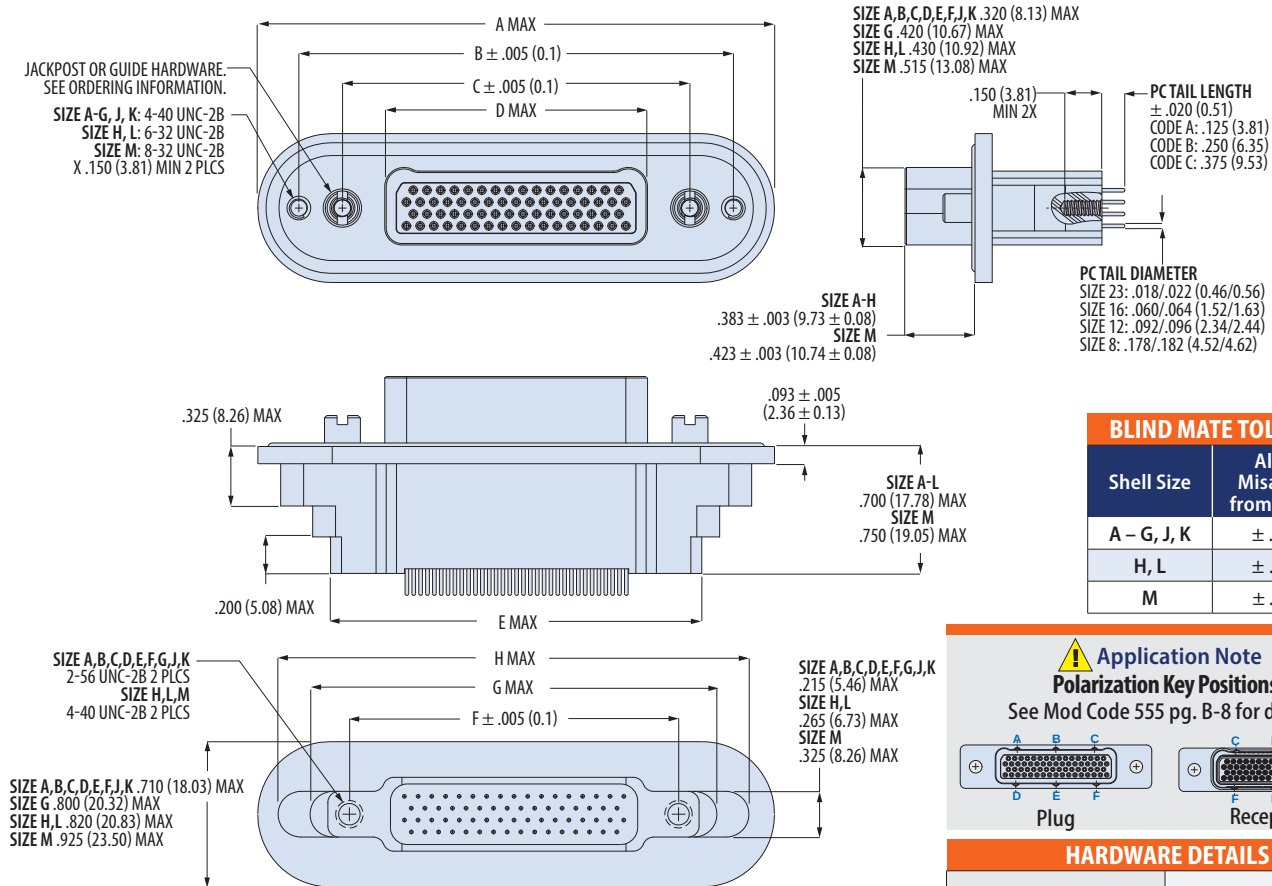
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BLIND MATE TOLERANCES	
Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M	± .050 (1.3)

Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details

Plug **Receptacle**

HARDWARE DETAILS

N No Hardware
Tapped holes.
Size A-G, J, K: 6-32 UNC-2B
H, L: 8-32 UNC-2B
M: 10-32 UNF-2B
150 (3.8) min. depth

P Female Jackposts
Jackposts are non-removable.
Size A-G, J, K: 4-40 UNC-2B
H, L: 6-32 UNC-2B
M: 8-32 UNC-2B

G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide bushing (B) on mating plug.

B Guide Bushings
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

Shell Size	A Max	B ± .005 (0.1)	C ± .005 (0.1)	D Max	E Max	F ± .005 (0.1)	G Max	H Max
	in	mm	in	mm	in	mm	in	mm
A	1.565	39.8	1.150	29.2	.750	19.1	.415	10.5
B	1.715	43.6	1.300	33.0	.900	22.9	.565	14.4
C	1.865	47.4	1.450	36.8	1.050	26.7	.715	18.2
D	1.940	49.3	1.525	38.7	1.125	28.6	.790	20.1
E	2.090	53.1	1.675	42.5	1.275	32.4	.940	23.9
F	2.240	56.9	1.825	46.4	1.425	36.2	1.090	27.7
G	2.200	55.9	1.785	45.3	1.388	35.3	1.052	26.7
H	2.835	72.0	2.375	60.3	1.900	48.3	1.442	36.6
J	2.615	66.4	2.200	55.9	1.800	45.7	1.465	37.2
K	2.990	75.9	2.575	65.4	2.175	55.2	1.840	46.7
L	3.075	78.1	2.611	66.3	2.136	54.3	1.678	42.6
M	3.333	84.6	2.824	71.7	2.200	55.9	1.745	44.3

Application Note
PCB Footprints
See Section **G** for PC board layouts.

Application Note
Panel Cutout
See page B-53 for recommended panel cutout dimensions for connectors.