

MICRO-CRIMP RECTANGULAR CONNECTORS

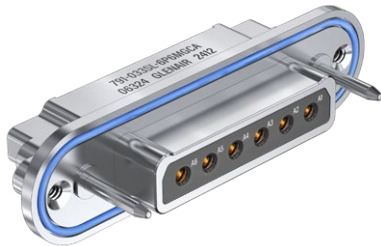
Series 791 Scoop-Proof



791-033

Panel Plug, Straight PC Tails

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

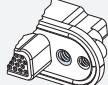
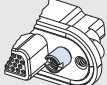
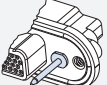
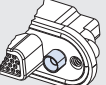


790-033 receptacle has straight PC tails. For rear panel mounting. Mounting flange has blind threaded holes and O-ring for ingress protection. Contact tails are sealed with epoxy. Shell has integral standoff and threaded holes for attachment to PC board. Available in 40 insert arrangements with up to 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 "Insert Arrangements" Table					
Shell Finish	<ul style="list-style-type: none"> M Electroless Nickel MT Nickel / PTFE NF Olive Drab Cadmium TZ Tin-Zinc ZR Black Zinc-Nickel 					
Hardware Option Table 1	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> N No O-ring C Conductive Fluorosilicone O-ring F Fluorosilicone O-ring 					
PC Tail Length	<ul style="list-style-type: none"> 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

SERIES 791 SCOOP-PROOF

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof

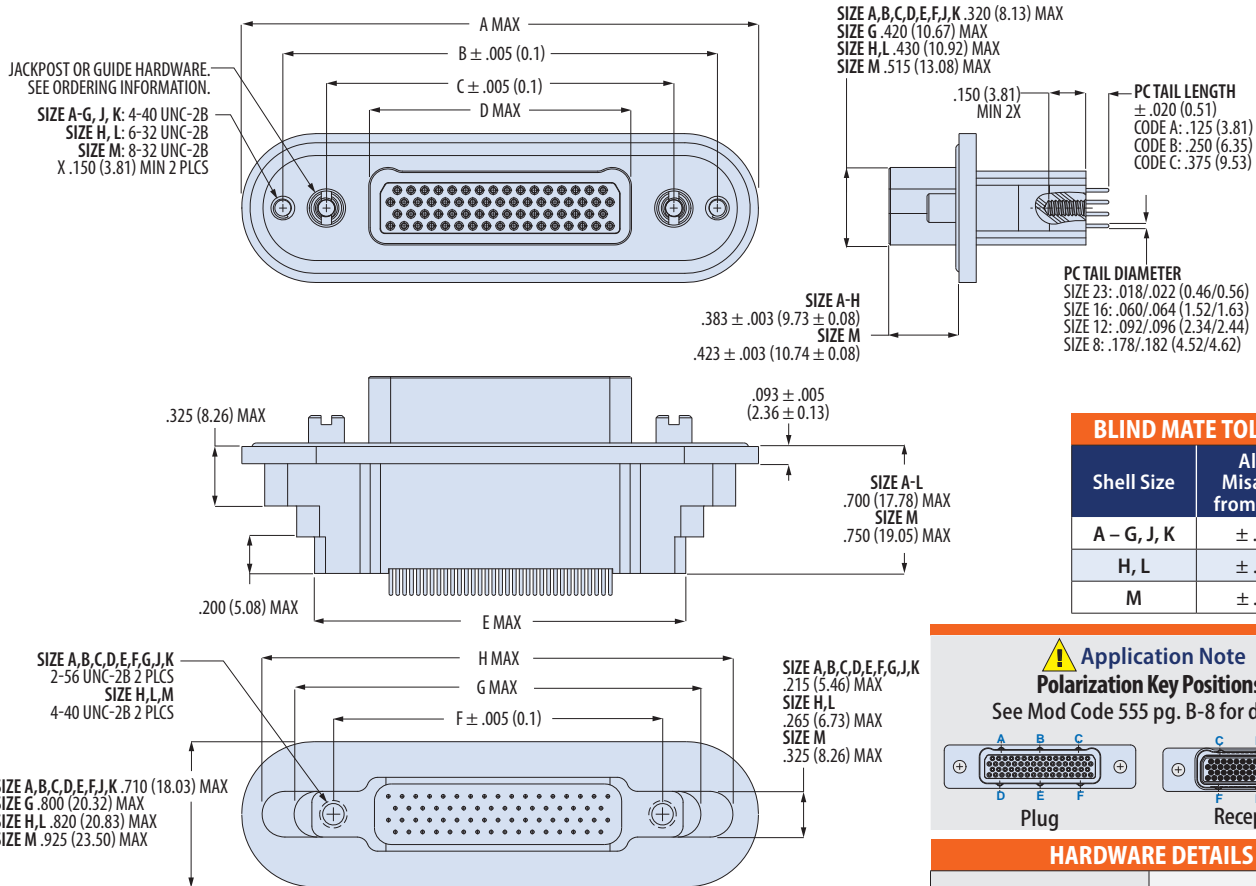


791-033

Panel Plug, Straight PC Tails

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

SERIES 791 SCOOP-PROOF



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

<p>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>	<p>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</p>
<p>G Guide Pins Guide pins for blind mate applications. Non-removable. Requires guide bushing (B) on mating plug.</p>	<p>B Guide Bushings Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.</p>

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	in	mm	in	mm	in	mm	in	mm
A	1.565	39.8	1.150	29.2	.750	19.1	.415	10.5	.760	19.3	.565	14.4	.960	24.4	1.345	34.2
B	1.715	43.6	1.300	33.0	.900	22.9	.565	14.4	.910	23.1	.715	18.2	1.110	28.2	1.495	38.0
C	1.865	47.4	1.450	36.8	1.050	26.7	.715	18.2	1.060	26.9	.865	22.0	1.260	32.0	1.645	41.8
D	1.940	49.3	1.525	38.7	1.125	28.6	.790	20.1	1.160	29.5	.965	24.5	1.360	34.5	1.745	44.3
E	2.090	53.1	1.675	42.5	1.275	32.4	.940	23.9	1.310	33.3	1.115	28.3	1.510	38.4	1.895	48.1
F	2.240	56.9	1.825	46.4	1.425	36.2	1.090	27.7	1.460	37.1	1.265	32.1	1.660	42.2	2.045	51.9
G	2.200	55.9	1.785	45.3	1.388	35.3	1.052	26.7	1.410	35.8	1.215	30.9	1.633	41.5	1.983	50.4
H	2.835	72.0	2.375	60.3	1.900	48.3	1.442	36.6	2.045	51.9	1.800	45.7	2.240	56.9	2.590	65.8
J	2.615	66.4	2.200	55.9	1.800	45.7	1.465	37.2	1.810	46.0	1.615	41.0	2.010	51.1	2.395	60.8
K	2.990	75.9	2.575	65.4	2.175	55.2	1.840	46.7	2.210	56.1	2.015	51.2	2.410	61.2	2.795	71.0
L	3.075	78.1	2.611	66.3	2.136	54.3	1.678	42.6	2.281	57.9	2.036	51.7	2.476	62.9	2.826	71.8
M	3.333	84.6	2.824	71.7	2.200	55.9	1.745	44.3	2.445	62.1	2.200	55.9	2.650	67.3	3.090	78.5

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.