

MICRO-CRIMP RECTANGULAR CONNECTORS

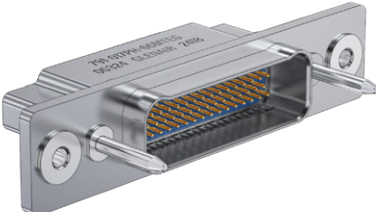
Series 791 Scoop-Proof



791-017

Panel Receptacle, Float Mounting

- ◆ Crimp, rear-release
- ◆ Float mount blind mate
- ◆ Pin contacts



791-017 panel mount receptacle has snap-in, rear-release M39029-type crimp contacts. Machined aluminum shell has stainless steel float bushings. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Optional nickel-plated beryllium copper grounding spring. Shell has threaded holes for attaching EMI banding adapter (799-016, sold separately).

- Aerospace-grade ultraminiature connector with rugged scoop-proof duo-lobe shell
- Environmental
- 42 layouts with up to 153 contacts
- M39029-type crimp contacts

INSERT ARRANGEMENTS					
FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts			
		#23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4
N-13P13	N-13W13			13	
N-153		153			

HOW TO ORDER						
Sample Part Number	791-017P	L-78	MT	E	G	B
Basic Part Number	791-017P Panel Receptacle, Float Mount, Pin Contacts					
Shell Size-Insert Arr.	See “Insert Arrangements” 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</u>					
	<u>N No EMI Spring</u>					
Hardware Option Table 1	<u>B Guide Bushings For blind mating</u>					
	<u>G Guide Pins For blind mating</u>					
	<u>N No Hardware Threaded holes</u>					
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					

- #### CONSTRUCTION
- Contacts: Copper alloy, gold over nickel finish
 - Shell: Aluminum
 - Insulators: High performance thermoplastic
 - Wire grommet, face seal: Fluorosilicone/silicone blend
 - Contact retaining clip: Beryllium copper, unplated
 - Hardware: Stainless steel

- #### 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

TABLE 1 HARDWARE OPTIONS

N
No Hardware

G
Guide Pin

B
Guide Bushing

Application Note

Polarization Key Positions

See Mod Code 555 pg. B-8 for details

Application Note

Panel Cutouts

See page B-54 for recommended panel cutout dimensions for float mount connectors.

Application Note

EMI Banding Backshell 799-016

See page F-32 for backshell ordering information.

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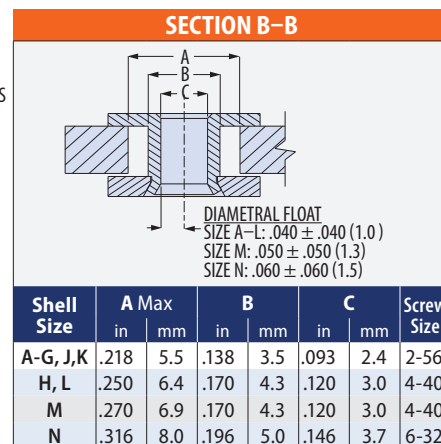
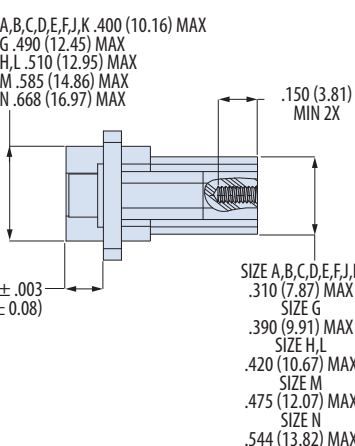
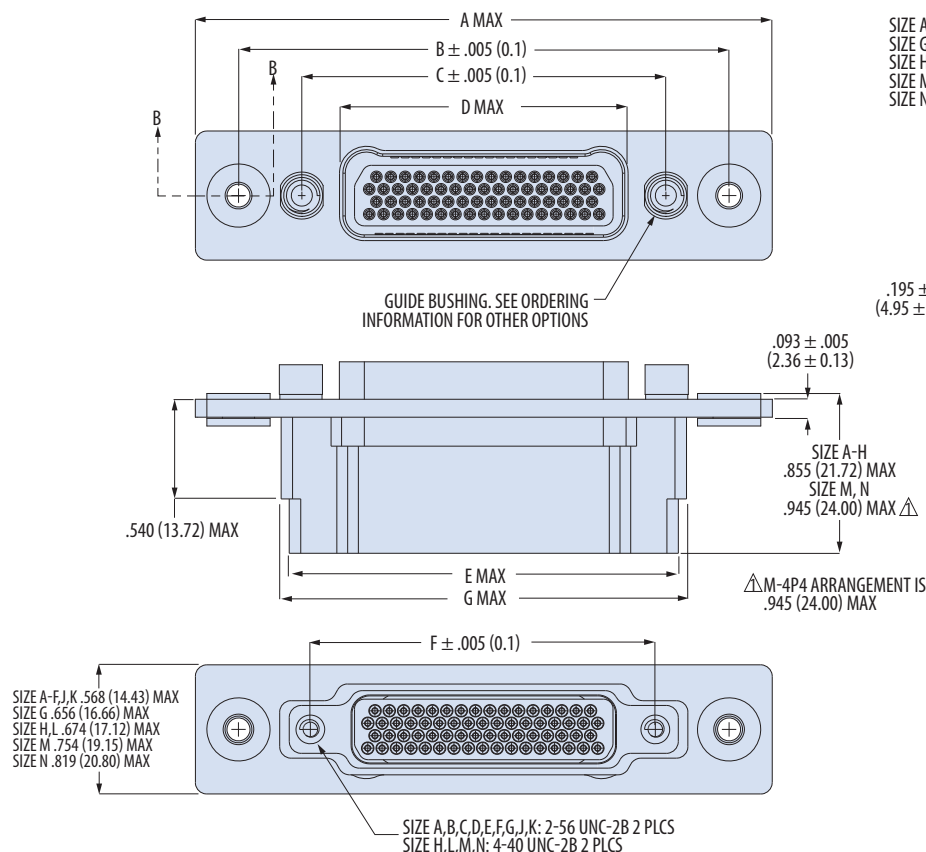


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SERIES 791 SCOOP-PROOF



Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F ± .005 (0.1)		G Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.785	45.3	1.365	34.7	.750	19.1	.490	12.4	.760	19.3	.565	14.4	.965	24.5
B	1.935	49.1	1.515	38.5	.900	22.9	.640	16.3	.910	23.1	.715	18.2	1.115	28.3
C	2.085	53.0	1.665	42.3	1.050	26.7	.790	20.1	1.060	26.9	.865	22.0	1.265	32.1
D	2.160	54.9	1.740	44.2	1.125	28.6	.865	22.0	1.160	29.5	.965	24.5	1.340	34.0
E	2.310	58.7	1.890	48.0	1.275	32.4	1.015	25.8	1.310	33.3	1.115	28.3	1.490	37.8
F	2.460	62.5	2.040	51.8	1.425	36.2	1.165	29.6	1.460	37.1	1.265	32.1	1.640	41.7
G	2.421	61.5	2.003	50.9	1.388	35.3	1.122	28.5	1.410	35.8	1.215	30.9	1.615	41.0
H	3.010	76.5	2.560	65.0	1.900	48.3	1.516	38.5	2.045	51.9	1.800	45.7	2.130	54.1
J	2.835	72.0	2.415	61.3	1.800	45.7	1.540	39.1	1.810	46.0	1.615	41.0	2.015	51.2
K	3.210	81.5	2.790	70.9	2.175	55.2	1.915	48.6	2.210	56.1	2.015	51.2	2.390	60.7
L	3.246	82.4	2.796	71.0	2.136	54.3	1.752	44.5	2.281	57.9	2.036	51.7	2.366	60.1
M	3.442	87.4	2.940	74.7	2.200	55.9	1.815	46.1	2.445	62.1	2.200	55.9	2.470	62.7
N	4.092	103.9	3.500	88.9	2.600	66.0	2.205	56.0	2.645	67.2	2.350	59.7	2.645	67.2

CRIMP CONTACTS AND TOOLS

Contacts are bulk packed with connector. Spare contacts are not included with connector and should be ordered separately if required. See "Contacts and Tools" section for additional information.

Contact Size	Pin Contact Part No.	AWG Wire Size	Installing and Removal Tool	Tool	Positioner	Die Assembly
23	809-001	22 - 28	809-088	809-015	809-005	—
16	809-110	16 - 20	809-131	809-136	809-137	—
12	809-112	12 - 14	809-132	809-136	809-137	—
8	850-014F	8	859-049	859-025	859-046	859-026

