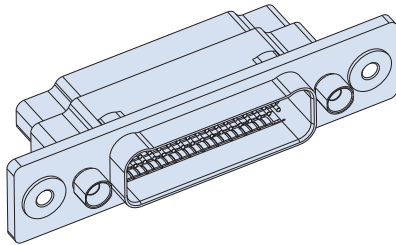


## Float Mount Connectors

### 791-017P Float Mount Receptacle Connectors with Crimp-and-Poke Pin Contacts



**791-017P**  
Float Mount Receptacle

#### RELIABLE DESIGN

- 100% scoop-proof
- Snap-in, rear release contacts
- EMI shell-to-shell continuity

#### VERSATILE

- Wide range of configurations
- Signal, power, RF, datalink
- Blind mate

#### HARSH ENVIRONMENT

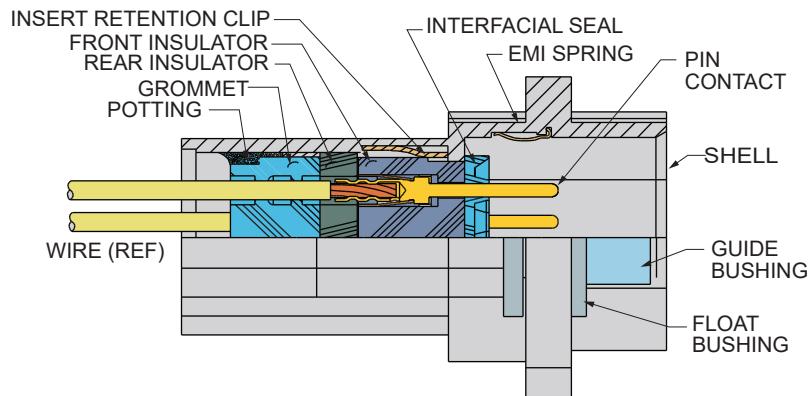
- Humidity, water ingress
- Shock and vibration
- Temperature extremes
- Corrosion resistance
- High altitude

#### SIZE AND WEIGHT SAVING

- High density

#### Harsh environment. Rugged construction. Ultraminiature.

Series 791 connectors are the next-generation higher density alternative to M24308 D Subminiature and other rack-and-panel connectors. Dual lobe shell, recessed pins to prevent scooping damage. Aluminum shell, thermoplastic insulator, gold-plated copper alloy contacts. Float bushings for blind mating. 5A to 46A current rating depending on contact size.



#### How To Order

Sample Part Number	<b>791-017P</b>	<b>H-10W4</b>	<b>M</b>	<b>E</b>	<b>B</b>
Product	<b>791-017P</b> Float mount receptacle, pin contacts, crimp type				
Arrangement Number (Shell Size - Insert Arr.)	See Table 2				
Shell Finish	<b>M</b> = Electroless Nickel <b>MT</b> = Nickel-PTFE <b>ZR</b> = Black Zinc-Nickel				
EMI Spring	<b>E</b> = EMI spring <b>N</b> = No EMI spring				
Hardware Option (Table 1)	<b>N</b> = No hardware) <b>G</b> = Male guide pin <b>B</b> = Female guide bushing				

#### Wire Accommodation

Contact Size	Wire Range AWG
23	22 – 28
16	16 – 20
12	12 – 14
8	8

#### Specifications

- Operating temperature: -65 to +150°C
- Current and voltage ratings:

Contact Size	Amps, max.	DWV Vac rms
23	5	750
16	13	1800
12	23	1800
8	46	1800
- Shock: EIA-364-27 condition D
- Vibration: EIA-364-28 condition V, letter E
- See pages 8-10 for Series 79 Product Specifications (ref: 799-008)

#### Construction

- Shell: aluminum alloy
- Insulators: high grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Socket contact hood: stainless steel, passivated
- Wire grommet: fluorosilicone blend
- Interfacial seal: fluorosilicone blend
- EMI spring: beryllium copper, nickel plated
- Contact retention clip, insert retention clip: beryllium copper
- Hardware: stainless steel, passivated

### Float Mount Connectors

### 791-017P Float Mount Receptacle Connectors with Crimp-and-Poke Pin Contacts

Table 1 Hardware Option

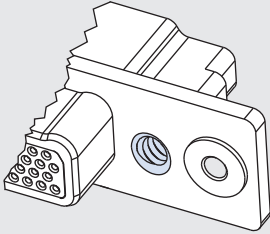
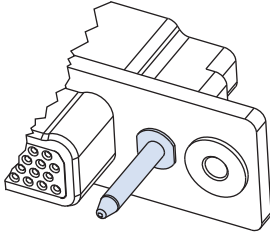
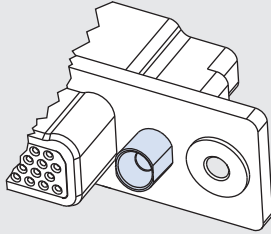











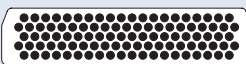


























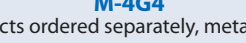
 <p><b>N</b> <b>No Hardware</b></p> <p>Connector supplied with threaded holes, .150 (3.8) minimum depth. Shell sizes A-G, J, K have 6-32 UNC-2B thread, sizes H and L have 8-32 UNC-2B thread. Size M has 10-32 UNF-2B thread.</p>	 <p><b>G</b> <b>Guide Pins</b></p> <p>Guide pins for blind mating applications. Use with guide bushing on mating connector. 300 series stainless steel, non-removable.</p>	 <p><b>B</b> <b>Guide Bushing</b></p> <p>Female guide bushings for blind mating applications. Use with guide pin on mating connector. 300 series stainless steel, non-removable.</p>
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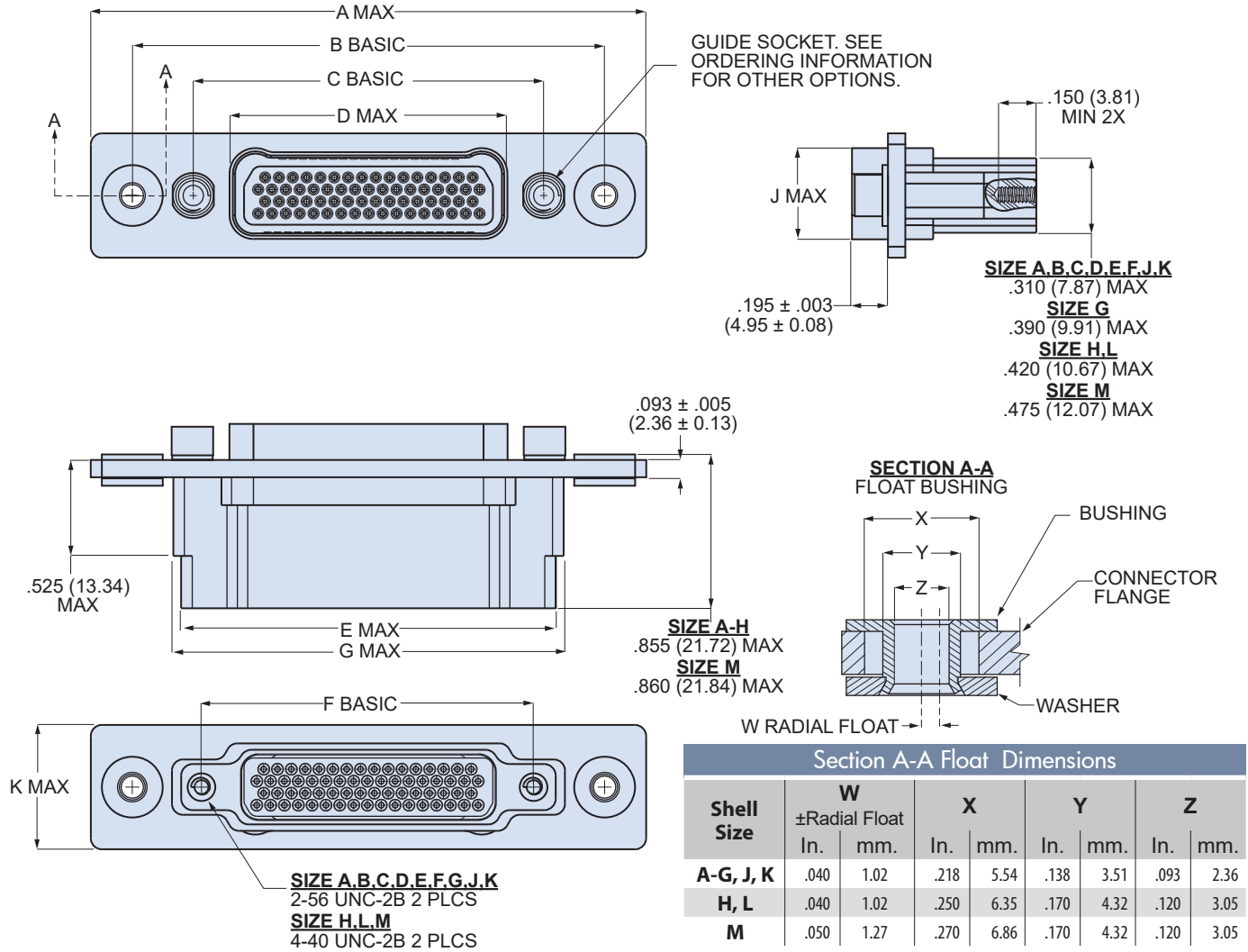
Table 2 Arrangement Number

Change the "P" to a "W" in any combo arrangement to delete power contacts. For example, arrangement **H-10P4** is supplied with a total of 10 contacts including (4) #12 power pins and (6) signal pins. Arrangement **H-10W4** is supplied with (6) signal pins and no power pins. Order coax contacts separately.

Arrangements with Size #23 Contacts	Arrangements with Size #16 Contacts	Arrangements with Size #12 Contacts
 <b>A-5</b> 5 #23  <b>B-9</b> 9 #23  <b>C-13</b> 13 #23  <b>D-15</b> 15 #23  <b>E-19</b> 19 #23  <b>F-23</b> 23 #23  <b>G-33</b> 33 #23  <b>H-66</b> 66 #23  <b>J-33</b> 33 #23  <b>K-43</b> 43 #23  <b>L-78</b> 78 #23  <b>M-102</b> 102 #23	 <b>B-2P2</b> 2 #16  <b>D-3P3</b> 3 #16  <b>D-7P2</b> 5 #23, 2 #16  <b>E-11P2</b> 9 #23, 2 #16  <b>E-7P3</b> 4 #23, 3 #16  <b>F-14P3</b> 11 #23, 3 #16  <b>F-15P2</b> 13 #23, 2 #16  <b>F-5P5</b> 5 #16  <b>H-29P7</b> 22 #23, 7 #16  <b>H-54P2</b> 52 #23, 2 #16  <b>J-17P4</b> 13 #23, 4 #16  <b>J-25P2</b> 23 #23, 2 #16  <b>J-7P7</b> 7 #16  <b>K-27P4</b> 23 #23, 4 #16  <b>K-35P2</b> 33 #23, 2 #16  <b>K-9P9</b> 9 #16  <b>M-17P17</b> 17 #16	 <b>G-13P2</b> 11 #23, 2 #12  <b>G-3P3</b> 3 #12  <b>G-21P1</b> 20 #23, 1 #12  <b>H-10P4</b> 6 #23, 4 #12  <b>H-36P2</b> 34 #23, 2 #12  <b>H-5P5</b> 5 #12  <b>L-6P6</b> 6 #12 <p><b>Arrangements with Size #8 Contacts</b></p>  <b>M-4P4</b> Supplied with 4 #8 Power Contacts  <b>M-4W4</b> Contacts ordered separately, dielectric insert  <b>M-4G4</b> contacts ordered separately, metal insert

### Float Mount Connectors

### 791-017P Float Mount Receptacle Connectors with Crimp-and-Poke Pin Contacts



#### 791-017P Dimensions

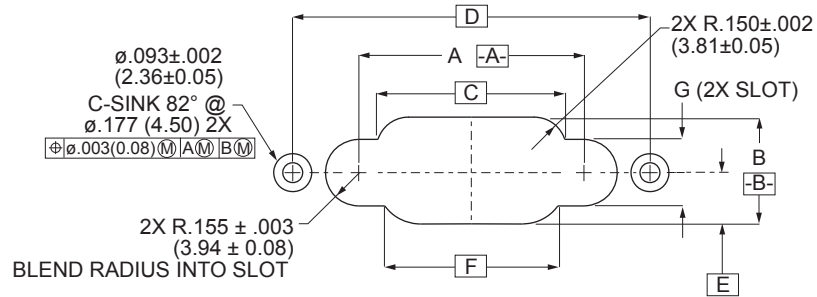
Shell Size	A Max		B Basic		C Basic		D Max		E Max		F Basic		G Max		J Max		K Max	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
A	1.785	45.34	1.365	34.67	.750	19.05	.490	12.45	.760	19.30	.565	14.35	.965	24.51	.400	10.16	.568	14.43
B	1.935	49.15	1.515	38.48	.900	22.86	.630	16.00	.910	21.11	.715	18.16	1.115	28.32	.400	10.16	.568	14.43
C	2.085	52.96	1.665	42.29	1.050	26.67	.780	19.81	1.060	26.92	.865	21.97	1.265	32.13	.400	10.16	.568	14.43
D	2.160	54.86	1.740	44.20	1.125	28.58	.855	21.72	1.160	29.46	.965	24.51	1.340	34.04	.400	10.16	.568	14.43
E	2.310	58.67	1.890	48.01	1.275	32.38	1.005	25.53	1.310	33.27	1.115	28.32	1.490	37.85	.400	10.16	.568	14.43
F	2.460	62.48	2.040	51.82	1.425	36.20	1.155	29.34	1.460	37.08	1.265	32.13	1.640	41.66	.400	10.16	.568	14.43
G	2.421	61.49	2.003	50.88	1.388	35.26	1.117	28.37	1.410	35.81	1.215	30.86	1.615	41.02	.490	12.45	.656	16.66
H	3.010	76.45	2.560	65.02	1.900	48.26	1.507	38.28	2.045	51.94	1.800	45.72	2.130	54.10	.510	12.95	.674	17.12
J	2.835	72.01	2.415	61.34	1.800	45.72	1.530	38.86	1.810	45.97	1.615	41.02	2.015	51.18	.400	10.16	.568	14.43
K	3.210	81.53	2.790	70.87	2.175	55.25	1.905	48.39	2.210	56.13	2.015	51.18	2.390	60.71	.400	10.16	.568	14.43
L	3.246	82.45	2.796	71.02	2.136	54.25	1.743	44.27	2.281	57.94	2.036	51.71	2.366	66.10	.510	12.95	.674	17.12
M	3.442	87.43	2.940	74.68	2.200	55.88	1.804	45.82	2.445	62.10	2.200	55.88	2.470	62.74	.585	14.86	.754	19.15

### Blind Mate Float Mount Connectors

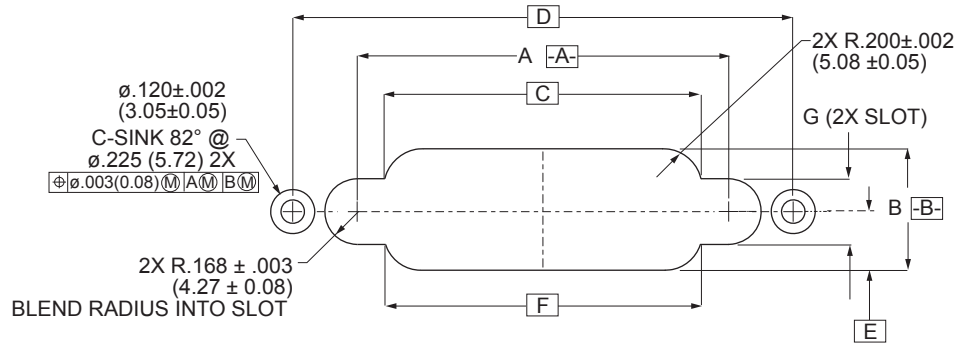
### 791-017P Float Mount Receptacle Connectors with Crimp-and-Poke Pin Contacts

#### Recommended Panel Cutout for Float Mount Connectors

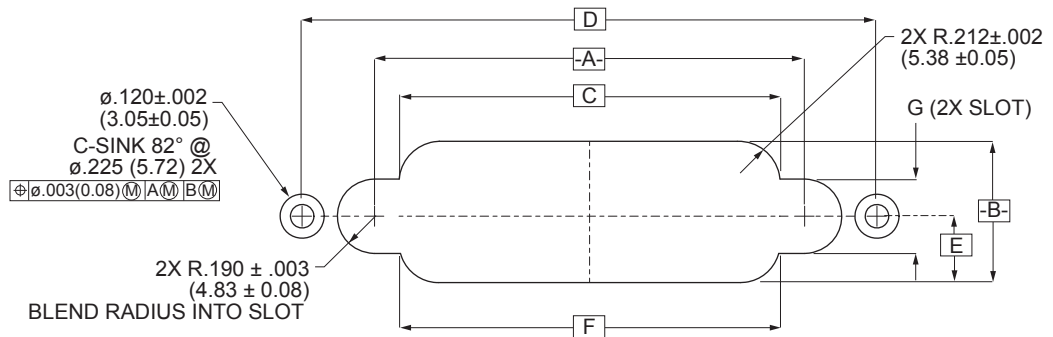
Panel Cutout for Shell Sizes **A, B, C, D, E, F, G, J, K**



Panel Cutout for Shell Sizes **H, L**



Panel Cutout for Shell Size **M**



Shell Size	A ±.002(0.05)		B ±.002(0.05)		C Basic		D Basic		E Basic		F Basic		G ±.003(0.08)	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
<b>A</b>	.750	19.05	.498	12.65	.571	14.50	1.365	34.67	.239	6.07	.507	12.88	.310	7.87
<b>B</b>	.900	22.86	.498	12.65	.721	18.31	1.515	38.48	.239	6.07	.657	16.69	.310	7.87
<b>C</b>	1.050	26.67	.498	12.65	.871	22.12	1.665	42.29	.239	6.07	.807	20.50	.310	7.87
<b>D</b>	1.125	28.58	.498	12.65	.946	24.03	1.740	44.20	.239	6.07	.882	22.40	.310	7.87
<b>E</b>	1.275	32.39	.498	12.65	1.096	27.84	1.890	48.01	.239	6.07	1.032	26.21	.310	7.87
<b>F</b>	1.425	36.20	.498	12.65	1.246	31.65	2.040	51.82	.239	6.07	1.182	30.02	.310	7.87
<b>G</b>	1.388	35.26	.586	14.88	1.223	31.06	2.003	50.88	.283	7.19	1.194	30.33	.310	7.87
<b>H</b>	1.900	48.26	.620	15.75	1.617	41.07	2.560	65.02	.300	7.62	1.610	40.89	.336	8.53
<b>J</b>	1.800	45.72	.498	12.65	1.621	41.17	2.415	61.34	.239	6.07	1.557	39.55	.310	7.87
<b>K</b>	2.175	55.25	.498	12.65	1.996	50.70	2.790	70.87	.239	6.07	1.932	49.07	.310	7.87
<b>L</b>	2.136	54.25	.620	15.75	1.853	47.07	2.796	71.02	.300	7.62	1.846	46.89	.336	8.53
<b>M</b>	2.200	55.88	.723	18.36	1.948	49.48	2.940	74.68	.340	8.64	1.935	49.15	.380	9.65