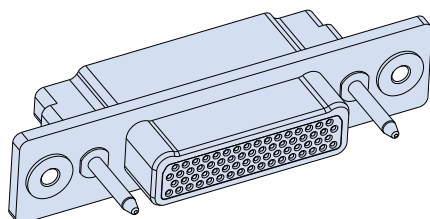


Float Mount Connectors

791-018S Float Mount Plug Connectors with Crimp-and-Poke Socket Contacts



791-018S
Float Mount Plug

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

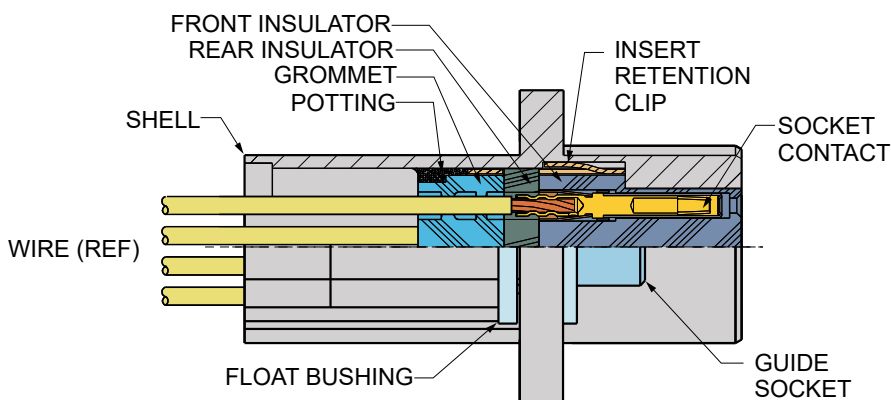
- Humidity, water ingress
- Shock and vibration
- Temperature extremes
- Corrosion resistance
- High altitude

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. Float bushings and guide pins for blind mate applications. Dual lobe shell, mating receptacle has recessed pins to prevent scooping damage. Aluminum shell, thermoplastic insulator, gold-plated copper alloy contacts. 5A to 46A current rating depending on contact size.



How To Order

Sample Part Number	791-018S	F-5P5	M	G
Product	791-018S Float mount plug, socket contacts, crimp type			
Arrangement Number (Shell Size - Insert Arr.)	See Table 2			
Shell Finish	M = Electroless Nickel MT = Nickel-PTFE ZR = Black Zinc-Nickel			
Hardware Option (Table 1)	N = No hardware) G = Male guide pin 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
- Contact retention clip, insert retention clip: beryllium copper
- Hardware: stainless steel, passivated

Float Mount Connectors

791-018S Float Mount Plug Connectors with Crimp-and-Poke Socket Contacts

Table 1 Hardware Option

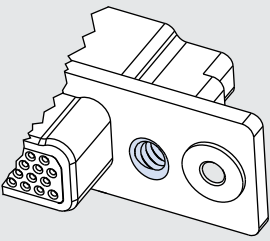
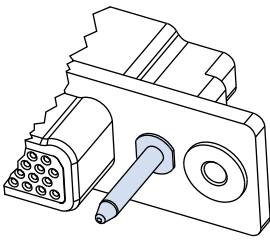
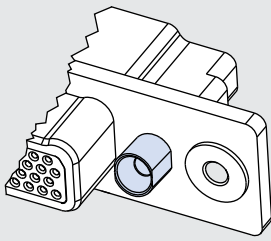
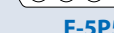
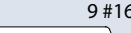
 N No Hardware Connector supplied with threaded holes, .150 (3.8) minimum depth. Shell sizes A-G, J, K have 6-32 UNC-2B thread, sizes H and L have 8-32 UNC-2B thread. Size M has 10-32 UNF-2B thread.	 G Guide Pins Guide pins for blind mating applications. Use with guide bushing on mating connector. 300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

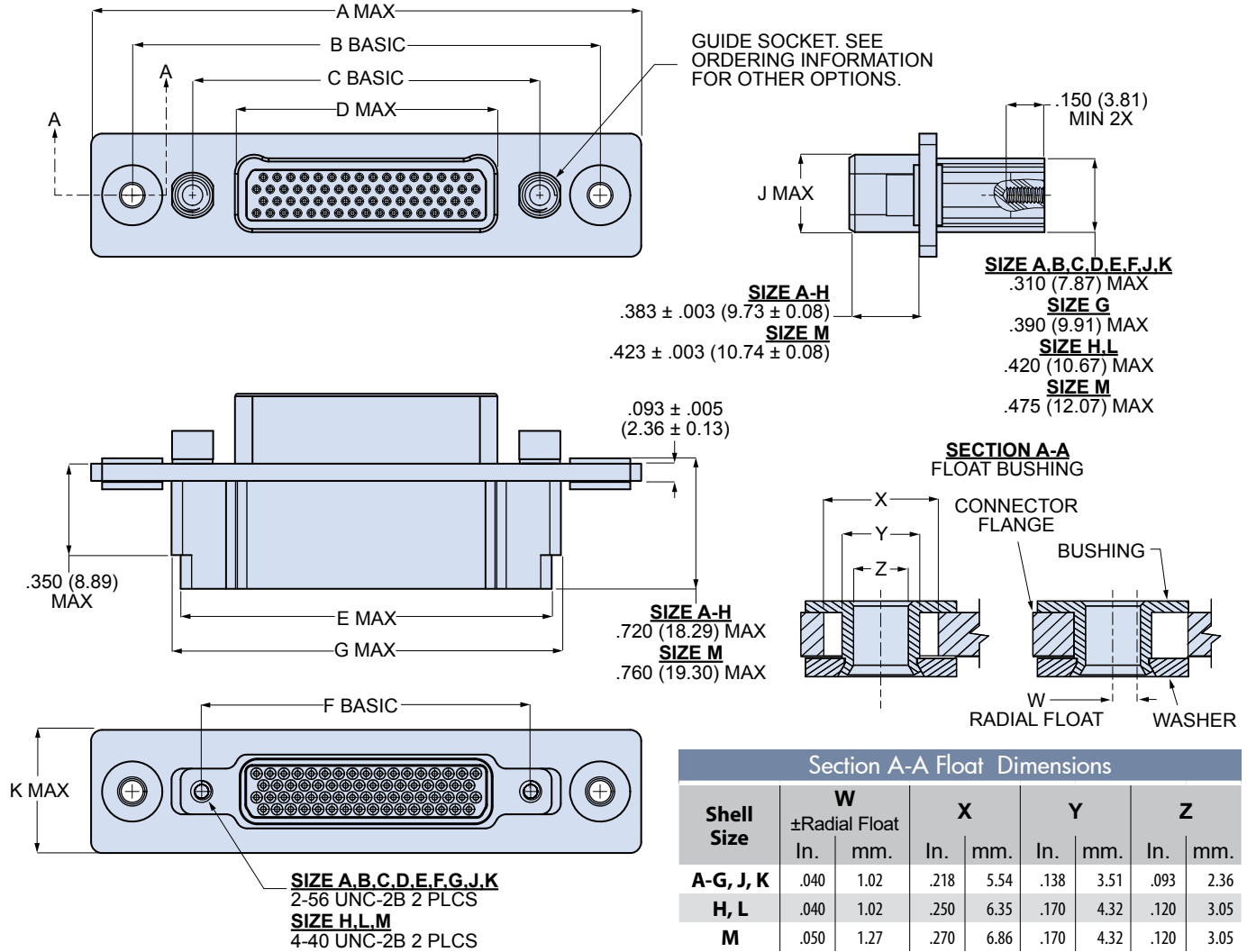
Table 2 Arrangement Number

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

Float Mount Connectors

791-018S Float Mount Plug Connectors with Crimp-and-Poke Socket Contacts



791-018S Dimensions

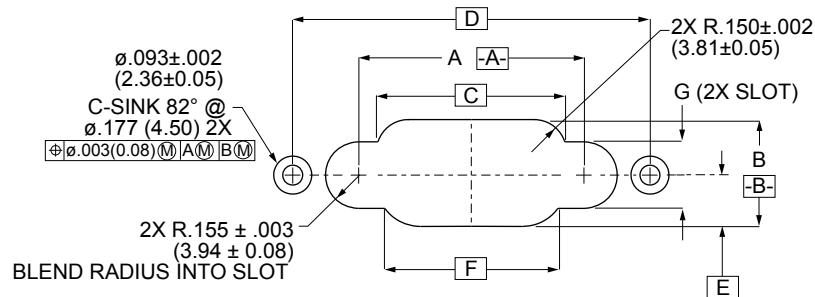
Shell Size	A Max		B Basic		C Basic		D Max		E Max		F Basic		G Max		J Max		K Max	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
A	1.785	45.34	1.365	34.67	.750	19.05	.410	10.41	.760	19.30	.565	14.35	.965	24.51	.320	8.13	.568	14.43
B	1.935	49.15	1.515	38.48	.900	22.86	.560	14.22	.910	21.11	.715	18.16	1.115	28.32	.320	8.13	.568	14.43
C	2.085	52.96	1.665	42.29	1.050	26.67	.710	18.03	1.060	26.92	.865	21.97	1.265	32.13	.320	8.13	.568	14.43
D	2.160	54.86	1.740	44.20	1.125	28.58	.785	19.94	1.160	29.46	.965	24.51	1.340	34.04	.320	8.13	.568	14.43
E	2.310	58.67	1.890	48.01	1.275	32.38	.935	23.75	1.310	33.27	1.115	28.32	1.490	37.85	.320	8.13	.568	14.43
F	2.460	62.48	2.040	51.82	1.425	36.20	1.085	27.56	1.460	37.08	1.265	32.13	1.640	41.66	.320	8.13	.568	14.43
G	2.421	61.49	2.003	50.88	1.388	35.26	1.047	26.59	1.410	35.81	1.215	30.86	1.615	41.02	.415	10.57	.656	16.66
H	3.010	76.45	2.560	65.02	1.900	48.26	1.437	36.50	2.045	51.94	1.800	45.72	2.130	54.10	.430	10.92	.674	17.12
J	2.835	72.01	2.415	61.34	1.800	45.72	1.460	37.08	1.810	45.97	1.615	41.02	2.015	51.18	.320	8.13	.568	14.43
K	3.210	81.53	2.790	70.87	2.175	55.25	1.835	46.61	2.210	56.13	2.015	51.18	2.390	60.71	.320	8.13	.568	14.43
L	3.246	82.45	2.796	71.02	2.136	54.25	1.673	42.49	2.281	57.94	2.036	51.71	2.366	60.10	.433	10.93	.674	17.12
M	3.442	87.43	2.940	74.68	2.200	55.88	1.734	44.04	2.445	62.10	2.200	50.80	2.470	62.74	.512	13.00	.754	19.15

Float Mount Connectors

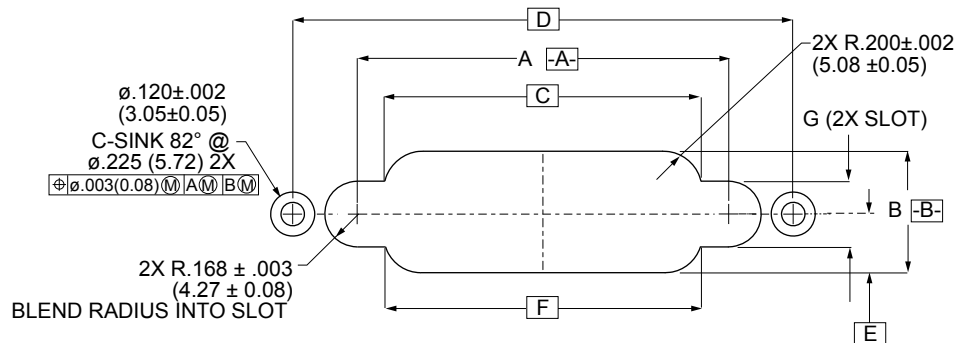
791-018S Float Mount Plug Connectors with Crimp-and-Poke Socket Contacts

Recommended Panel Cutout for Float Mount Connectors

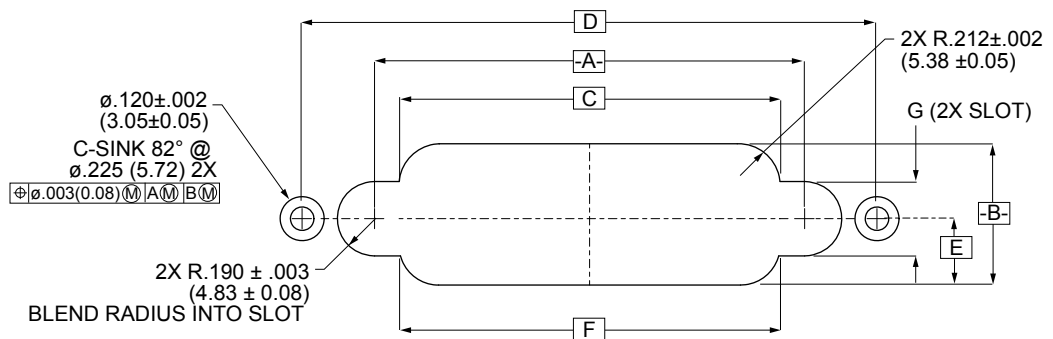
Panel Cutout for
Shell Sizes
**A, B, C, D, E, F, G,
J, K**



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.
A	.750	19.05	.498	12.65	.571	14.50	1.365	34.67	.239	6.07	.507	12.88	.310	7.87
B	.900	22.86	.498	12.65	.721	18.31	1.515	38.48	.239	6.07	.657	16.69	.310	7.87
C	1.050	26.67	.498	12.65	.871	22.12	1.665	42.29	.239	6.07	.807	20.50	.310	7.87
D	1.125	28.58	.498	12.65	.946	24.03	1.740	44.20	.239	6.07	.882	22.40	.310	7.87
E	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
F	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
G	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
H	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
J	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
K	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
L	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
M	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