

MICRO-CRIMP RECTANGULAR CONNECTORS

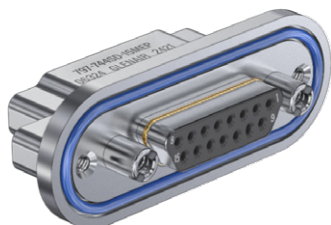
Series 790 High-Density

SERIES™
790
HD

797-744

Panel Plug, Lightweight Hermetic

- ◆ Aluminum shell hermetic
- ◆ Solder cup wire termination
- ◆ Socket contacts



Lightweight, hermetic. 797-744 panel mount plug is hermetically sealed with "Code Red" polymer process. Solder cup contacts. Shell has rear threads for attaching EMI banding adapter (799-016, sold separately). Fluorosilicone O-ring provides panel seal. Optional ground spring improves EMI shielding.

CODE RED

CODE RED is an innovative sealing process — invented by Glenair — that provides durable hermetic sealing in a lightweight aluminum package. CODE RED allows for the use of conventional gold-plated copper alloy contacts, significantly improving electrical performance. These connectors deliver reliable, life-of-system 1×10^{-7} max leak-rate hermetic sealing.

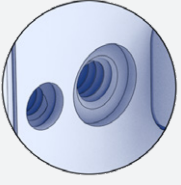
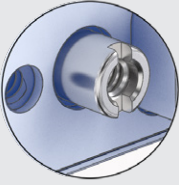
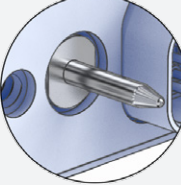
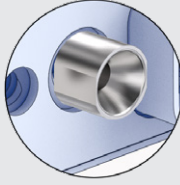
INSERT ARRANGEMENTS

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		797-744S	F-15P2	M	E	G
Basic Part Number	797-744S	Panel Plug, Fixed Socket Contacts				
Shell Size-Insert Arr.	See <i>“Insert Arrangements”</i> Table					
Shell Finish	M	Electroless Nickel				
	ZR	Black Zinc-Nickel				
EMI Spring	E	EMI Spring <i>Shell finish M only</i>				
	N	No EMI Spring				
Hardware Option	N	No Hardware <i>Threaded holes</i>				
Table 1	G	Guide Pins <i>For blind mating</i>				
	P	Female Jackposts				
	S	Guide Sockets <i>For blind mating</i>				

TABLE 1 HARDWARE OPTIONS

			
N No Hardware Threaded Blind Holes	P Female Jackpost	G Guide Pin	S Guide Socket

RATINGS

- Hermeticity: $<1 \times 10^{-7}$ ccHe/sec @ 1 ATM delta
- 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 +200 °C
- Durability: 500 mating cycles
- Shock: 300 g
- Vibration: 20 g random
- Ingress protection: IP67

CONSTRUCTION

- Socket Contacts: Copper alloy, gold over nickel finish. Stainless steel hood.
- Shell: Aluminum
- Insulators: High performance thermoplastic
- Sealing compound: silicone base polymer
- EMI spring: Stainless steel, gold plated
- Hardware: Stainless steel

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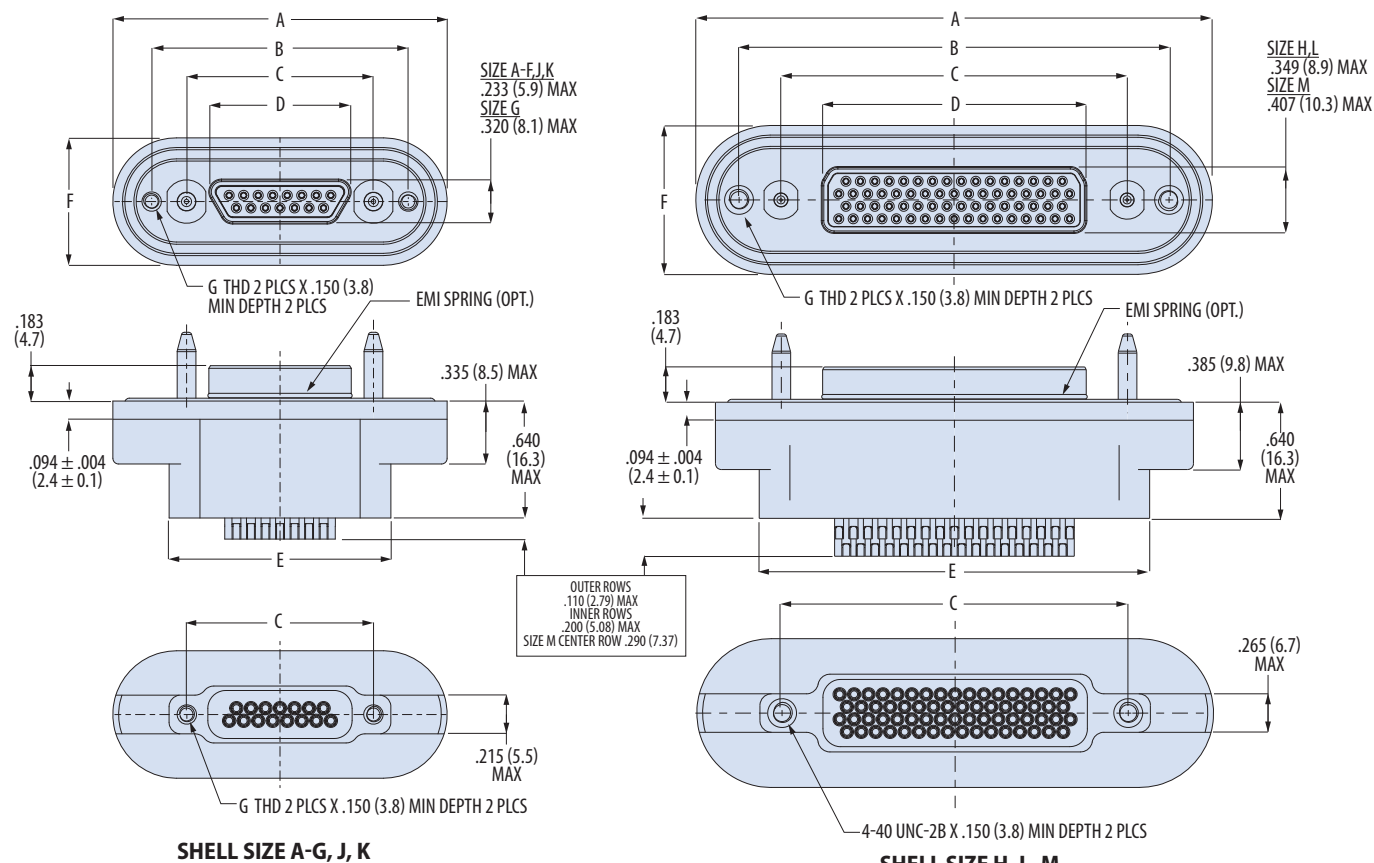
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Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G Thd UNC-2B
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
A	1.341	34.1	.925	23.5	.565	14.4	.335	8.5	.760	19.3	.670	17.0	2-56
B	1.491	37.9	1.075	27.3	.715	18.2	.485	12.3	.910	23.1	.670	17.0	2-56
C	1.641	41.7	1.225	31.1	.865	22.0	.635	16.1	1.060	26.9	.670	17.0	2-56
D	1.741	44.2	1.325	33.7	.965	24.5	.735	18.7	1.160	29.5	.670	17.0	2-56
E	1.891	48.0	1.475	37.5	1.115	28.3	.885	22.5	1.310	33.3	.670	17.0	2-56
F	2.041	51.8	1.625	41.3	1.265	32.1	1.035	26.3	1.460	37.1	.670	17.0	2-56
G	1.995	50.7	1.575	40.0	1.215	30.9	1.010	25.7	1.410	35.8	.760	19.3	2-56
H	2.702	68.6	2.236	56.8	1.800	45.7	1.385	35.2	2.045	51.9	.789	20.0	4-40
J	2.391	60.7	1.975	50.2	1.615	41.0	1.390	35.3	1.810	46.0	.670	17.0	2-56
K	2.791	70.9	2.375	60.3	2.015	51.2	1.795	45.6	2.210	56.1	.670	17.0	2-56
L	2.938	74.6	2.472	62.8	2.036	51.7	1.623	41.2	2.281	57.9	.789	20.0	4-40
M	3.286	83.5	2.770	70.4	2.200	55.9	1.675	42.5	2.485	63.1	.842	21.4	6-32

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

HARDWARE DETAILS	
N No Hardware Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth	P Female Jackposts Jackposts are non-removable. Size A-G, J, K = 2-56, H, L = 4-40, M = 6-32.
G Guide Pins Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.	S Guide Socket Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

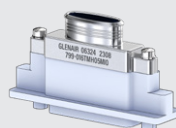
Application Note

Panel Cutout

See page A-60 for panel cutout dimensions.

Application Note

EMI Banding Backshell 799-016



See page F-32 for backshell ordering information.