

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 790 High-Density

SERIES™
790
HD

790-026 Panel Receptacle

- ◆ Crimp, rear-release
- ◆ Rear panel mount
- ◆ Pin contacts



Lightweight, harsh environment. 790-026 rear panel mount receptacle has snap-in, rear-release M39029-type crimp contacts. 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). Conductive fluorosilicone panel gasket provides low resistance panel bonding and ingress protection. Wire grommet and interfacial seal provide environmental protection.

- Aerospace-grade microminiature connector with M39029-type crimp contacts
- 40 insert arrangements with up to 102 contacts
- Environmental

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

HOW TO ORDER

Sample Part Number		790-026P	H-66	M	S
Basic Part Number	790-026P Panel Receptacle, Pin Contacts				
Shell Size-Insert Arr.	See "Insert Arrangements" Table				
Shell Finish	M Electroless Nickel MT Nickel / PTFE N Olive Drab Cadmium TZ Tin-Zinc ZR Black Zinc-Nickel				
Hardware Option <i>Table 1</i>	N No Hardware <i>Threaded holes</i> G Guide Pins <i>For blind mating</i> P Female Jackposts S Guide Sockets <i>For blind mating</i>				

CONSTRUCTION

- Contacts: Copper alloy, gold over nickel finish
- Shell: Aluminum
- Insulators: High performance thermoplastic
- Wire grommet, face seal: Fluorosilicone/silicone blend
- Panel gasket: Cho-Seal 1287 silver-plated aluminum filled fluorosilicone
- 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		P Female Jackpost	
G Guide Pin		S Guide Socket	

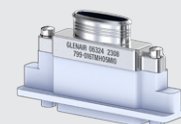
⚠ Application Note Panel Cutout

See page A-60 for panel cutout dimensions.

⚠ Application Note

EMI Banding Backshell 799-016

See page F-32 for backshell ordering information.



MICRO-CRIMP RECTANGULAR CONNECTORS

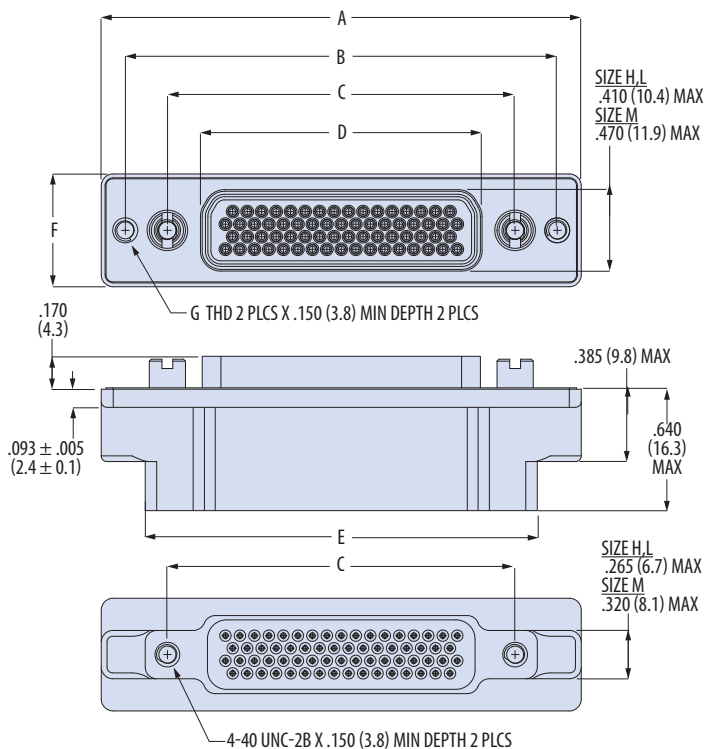
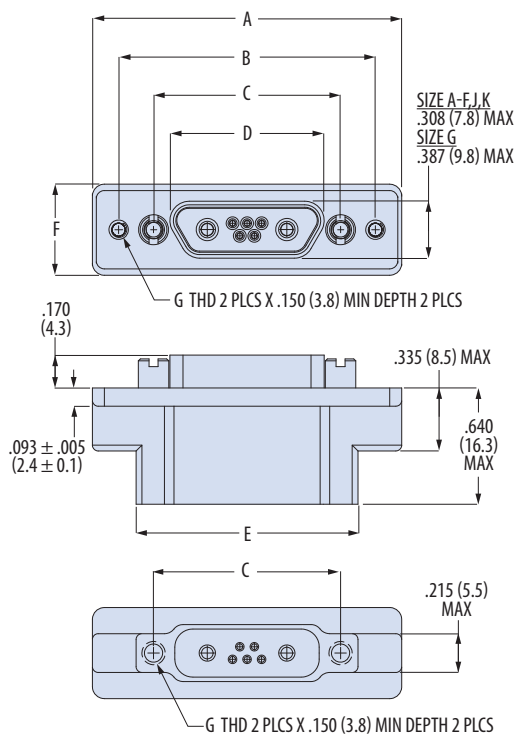
Series 790 High-Density



790-026

Panel Receptacle

- ◆ Crimp, rear-release
- ◆ Rear panel mount
- ◆ Pin contacts



SHELL SIZE A-G, J, K

SHELL SIZE H, L, M, N

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G THD
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	UNC-2B
A	1.211	30.8	.925	23.5	.565	14.4	.401	10.2	.760	19.3	.485	12.3	2-56
B	1.361	34.6	1.075	27.3	.715	18.2	.551	14.0	.910	23.1	.485	12.3	2-56
C	1.511	38.4	1.225	31.1	.865	22.0	.701	17.8	1.060	26.9	.485	12.3	2-56
D	1.611	40.9	1.325	33.7	.965	24.5	.801	20.3	1.160	29.5	.485	12.3	2-56
E	1.761	44.7	1.475	37.5	1.115	28.3	.951	24.2	1.310	33.3	.485	12.3	2-56
F	1.911	48.5	1.625	41.3	1.265	32.1	1.101	28.0	1.460	37.1	.485	12.3	2-56
G	1.861	47.3	1.575	40.0	1.215	30.9	1.079	27.4	1.410	35.8	.575	14.6	2-56
H	2.500	63.5	2.236	56.8	1.800	45.7	1.450	36.8	2.045	51.9	.600	15.2	4-40
J	2.261	57.4	1.975	50.2	1.615	41.0	1.460	37.1	1.810	46.0	.485	12.3	2-56
K	2.661	67.6	2.375	60.3	2.015	51.2	1.860	47.2	2.210	56.1	.485	12.3	2-56
L	2.736	69.5	2.472	62.8	2.036	51.7	1.686	42.8	2.281	57.9	.600	15.2	4-40
M	3.085	78.4	2.770	70.4	2.200	55.9	1.745	44.3	2.485	63.1	.660	16.8	6-32

CRIMP CONTACTS AND TOOLS

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

Contact Size	Pin Contact Part No.	AWG Wire Size	Installing and Removal Tool	Tool	Crimp Tools Positioner	Die Assembly
23	809-001	22 – 28	809-088	809-015 (M22520/2-01)	809-005 (K1461)	—
16	809-110	16 – 20	809-131 (M81969/14-03)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
12	809-112	12 – 14	809-132 (M81969/14-04)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
8	850-014F	8	859-049 (M81969/14-12)	859-025 (M22520/23-01)	859-046 (WA23-395L)	859-026 (M22520/23-02)

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 Sockets Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

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)