

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 790 High-Density

SERIES™
790
HD

790-045

Cable Receptacle with Banding Platform

- ◆ Crimp, rear-release
- ◆ Pin contacts
- ◆ Banding platform



Banding platform. 790-045 cable receptacle has integral platform for attaching cable braid with Band-Master ATS banding strap, sold separately. Snap-in, rear-release M39029-type crimp contacts are packaged with connector. 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). Rear grommet and interfacial seal provide environmental protection.

- Aerospace-grade microminiature connector with M39029-type 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

790-045P

G-33

ZR

MF

Basic Part Number

790-045P

Cable Receptacle, Pin Contacts, with Banding Platform

Shell Size-Insert Arr.

See "Insert Arrangements" Table

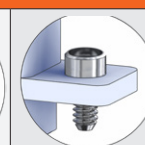
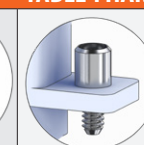
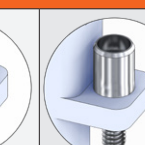
Shell Finish

M Electroless Nickel
MT Nickel / PTFE
N Olive Drab Cadmium
TZ Tin-Zinc
ZR Black Zinc-Nickel

Hardware Option Table 1

B Thru-Holes *No hardware*
M Jackscrews *Socket head male*
MF Screwlocks *Socket head male*
P Female Jackposts
S Jackscrews *Slot head male*
SF Screwlocks *Slot head male*

TABLE 1 HARDWARE OPTIONS

					
B	M	MF	P	S	SF
No Hardware Thru Mounting Holes	Jackscrew Socket Head	Screwlock Socket Head	Female Jackpost With Nut and Lockwasher	Jackscrew Slot Head	Screwlock Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

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

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

MICRO-CRIMP RECTANGULAR CONNECTORS

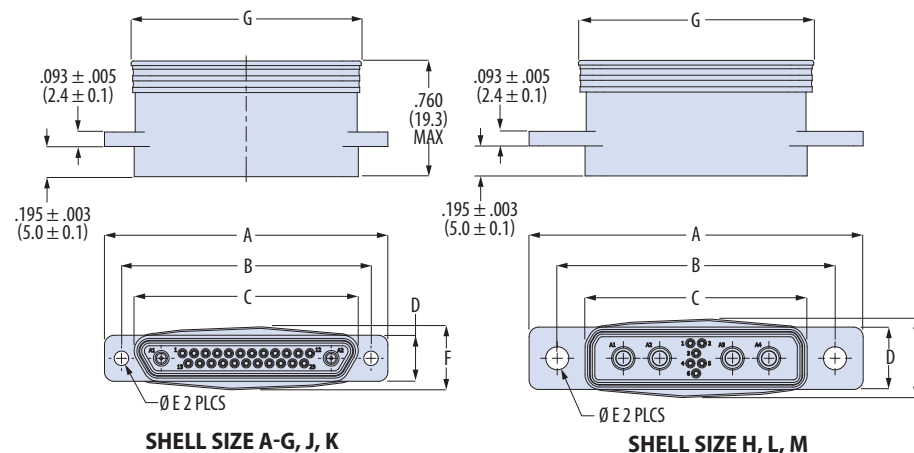
Series 790 High-Density



790-045

Cable Receptacle with Banding Platform

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- ◆ Pin Contacts
- ◆ Banding Platform



Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		ø E ± .004 (0.1)		F Max		G Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.785	19.9	.565	14.4	.400	10.2	.308	7.8	.092	2.3	.370	9.4	.450	11.4
B	.935	23.7	.715	18.2	.551	14.0	.308	7.8	.092	2.3	.380	9.7	.600	15.2
C	1.085	27.6	.865	22.0	.701	17.8	.308	7.8	.092	2.3	.400	10.2	.750	19.1
D	1.185	30.1	.965	24.5	.801	20.3	.308	7.8	.092	2.3	.410	10.4	.850	21.6
E	1.335	33.9	1.115	28.3	.951	24.2	.308	7.8	.092	2.3	.410	10.4	1.000	25.4
F	1.485	37.7	1.265	32.1	1.101	28.0	.308	7.8	.092	2.3	.420	10.7	1.150	29.2
G	1.435	36.4	1.215	30.9	1.079	27.4	.395	10.0	.092	2.3	.500	12.7	1.140	29.0
H	2.175	55.2	1.800	45.7	1.450	36.8	.410	10.4	.149	3.8	.520	13.2	1.535	39.0
J	1.845	46.9	1.615	41.0	1.460	37.1	.308	7.8	.092	2.3	.420	10.7	1.500	38.1
K	2.240	56.9	2.015	51.2	1.860	47.2	.308	7.8	.092	2.3	.440	11.2	1.900	48.3
L	2.420	61.5	2.036	51.7	1.686	42.8	.410	10.4	.149	3.8	.530	13.5	1.770	45.0
M	2.575	65.4	2.200	55.9	1.745	44.3	.470	11.9	.172	4.4	.600	15.2	1.835	46.6

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)

Application Note

Panel Mounting

For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost **799-117**. See page F-18 for jackpost ordering information, page F-19 for panel cutout dimensions.

HARDWARE DIMENSIONS

Shell Size	Thread Size
A – G, J, K	#2-56
H, L	#4-40
M	#6-32

	P Female Jackpost with Hex Nut and Lockwasher
	M S Jackscrew
	MF SF Screwlock

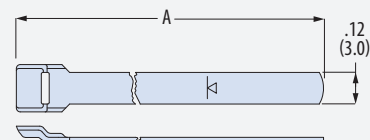
SHIELD BAND

Band is not included with connector. Order separately.

Use Micro Band strap to terminate cable braid directly to connector. Stainless steel band strap provides fast, cost-effective and highly reliable termination of braided metallic shielding.



Micro Band Strap Micro Band Tool
601-101



A Length		Fits up to Dia.		Band Strap Part Number	
in	mm	in	mm	Flat	Pre-coiled
8	203	.88	22.4	601-060	601-061
14	356	1.88	47.7	601-064	601-065