

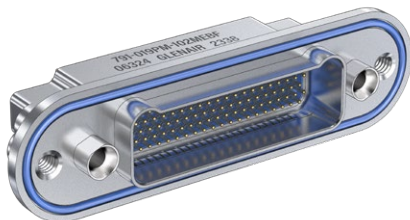
MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof

SERIES™
791
Scoop-Proof

791-019 Panel Receptacle

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



791-019 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). Optional nickel-plated beryllium copper grounding spring. Panel O-ring, wire grommet and interfacial seal provide environmental protection. Shell has threaded holes for attaching EMI banding adapter (799-016, sold separately).

- Aerospace-grade ultraminiature connector with rugged scoop-proof duo-lobe shell
- Environmental
- 42 layouts with up to 153 contacts
- M39029-type crimp contacts

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
N-13P13	N-13W13			13	
N-153		153			

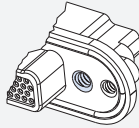
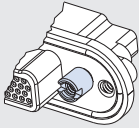
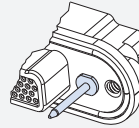
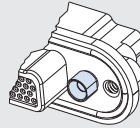
HOW TO ORDER

Sample Part Number

791-019P H-66 M E P C B

Basic Part Number	791-019P Panel Receptacle, Pin Contacts
Shell Size-Insert Arr.	See "Insert Arrangements" Table
Shell Finish	M Electroless Nickel MT Nickel / PTFE NF Olive Drab Cadmium TZ Tin-Zinc ZR Black Zinc-Nickel
EMI Spring	E EMI Spring N No EMI Spring
Hardware Option Table 1	B Guide Bushing <i>For blind mating</i> G Guide Pins <i>For blind mating</i> N No Hardware <i>Threaded holes</i> P Female Jackposts
Panel O-Ring	N No O-ring C Conductive Fluorosilicone O-ring F Fluorosilicone O-ring
Polarization Key Option	Enter Letter Designator for Position A, B, C, D, E, or F per Mod Code 555 (see page B-8 for details) Omit for none

TABLE 1 HARDWARE OPTION

 N No Hardware	 P Female Jackpost	 G Guide Pin	 B Guide Bushing
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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
- Ground spring: BeCu, electroless nickel plated
- Grommet, face seal: Fluorosilicone/silicone blend
- O-ring: Code F- fluorosilicone, Code C- conductive fluorosilicone
- Contact retaining clip: Beryllium copper, unplated
- Hardware: Stainless steel

MICRO-CRIMP RECTANGULAR CONNECTORS

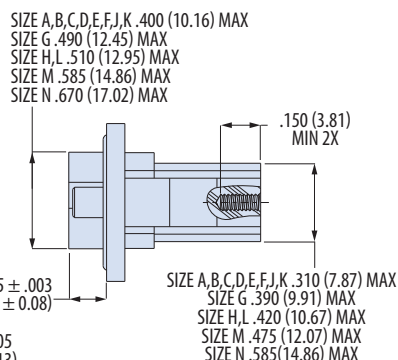
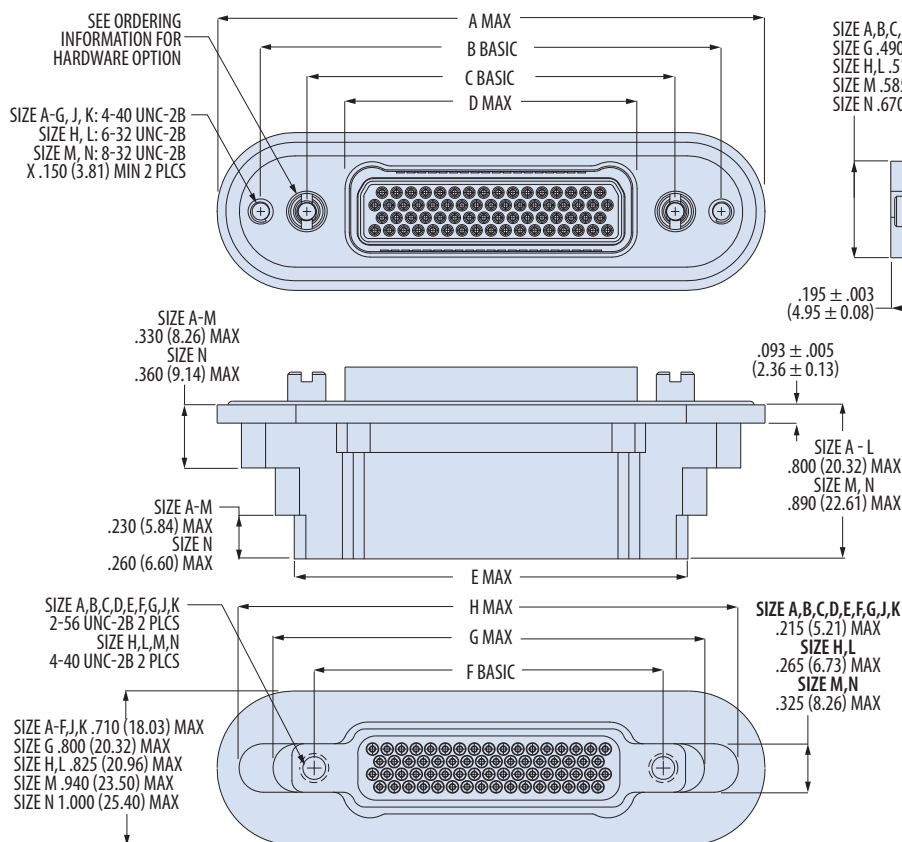
Series 791 Scoop-Proof



791-019

Panel Receptacle

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



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: 6-32 UNC-2B H, L: 8-32 UNC-2B M: 10-32 UNF-2B N: 12-24 UNC-2B 150 (3.8) min. depth	P Female Jackposts Jackposts are non-removable. Size A-G, J, K: 4-40 UNC-2B H, L: 6-32 UNC-2B M: 8-32 UNC-2B N: 10-32 UNF-2B
G Guide Pins Guide pins for blind mate applications. Non-removable.	B Guide Bushings Guide sockets for blind mate applications. Non-removable.

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F ± .005 (0.1)		G Max		H Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.565	39.8	1.150	29.2	.750	19.1	.490	12.4	.760	19.3	.565	14.4	.960	24.4	1.345	34.2
B	1.715	43.6	1.300	33.0	.900	22.9	.640	16.3	.910	23.1	.715	18.2	1.110	28.2	1.495	38.0
C	1.865	47.4	1.450	36.8	1.050	26.7	.790	20.1	1.060	26.9	.865	22.0	1.260	32.0	1.645	41.8
D	1.940	49.3	1.525	38.7	1.125	28.6	.865	22.0	1.160	29.5	.965	24.5	1.360	34.5	1.745	44.3
E	2.090	53.1	1.675	42.5	1.275	32.4	1.015	25.8	1.310	33.3	1.115	28.3	1.510	38.4	1.895	48.1
F	2.240	56.9	1.825	46.4	1.425	36.2	1.165	29.6	1.460	37.1	1.265	32.1	1.660	42.2	2.045	51.9
G	2.200	55.9	1.785	45.3	1.388	35.3	1.122	28.5	1.410	35.8	1.215	30.9	1.633	41.5	1.983	50.4
H	2.835	72.0	2.375	60.3	1.900	48.3	1.516	38.5	2.045	51.9	1.800	45.7	2.240	56.9	2.590	65.8
J	2.615	66.4	2.200	55.9	1.800	45.7	1.540	39.1	1.810	46.0	1.615	41.0	2.010	51.1	2.395	60.8
K	2.990	75.9	2.575	65.4	2.175	55.2	1.915	48.6	2.210	56.1	2.015	51.2	2.410	61.2	2.795	71.0
L	3.075	78.1	2.611	66.3	2.136	54.3	1.752	44.5	2.281	57.9	2.036	51.7	2.476	62.9	2.826	71.8
M	3.345	85.0	2.824	71.7	2.200	55.9	1.815	46.1	2.445	62.1	2.200	55.9	2.650	67.3	3.090	78.5
N	3.775	95.9	3.240	82.3	2.600	66.0	2.205	56.0	2.645	67.2	2.350	59.7	2.910	73.9	3.530	89.7

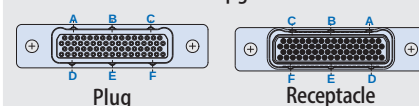
CRIMP CONTACTS AND TOOLS

Contacts are bulk packed with connector. Spare contacts are not included with connector and are ordered separately if required. See "Contacts and Tools" section for additional information.	Contact Size	Pin Contact Part No.	AWG Wire Size	Installing and Removal Tool	Tool	Positioner	Die Assembly
	23	809-001	22 - 28	809-088	809-015	809-005	—
	16	809-110	16 - 20	809-131	809-136	809-137	—
	12	809-112	12 - 14	809-132	809-136	809-137	—
	8	850-014F	8	859-049	859-025	859-046	859-026

Application Note

Polarization Key Positions

See Mod Code 555 pg. B-8 for details



Application Note

Panel Cutout

See page B-53 for panel cutout dimensions.

Application Note

EMI Banding Backshell 799-016

See page F-32 for backshell ordering information.