

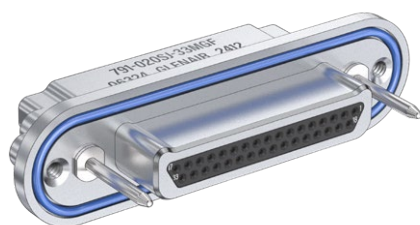
MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof



791-020

Panel Plug



791-020 panel mount plug 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). Panel O-ring and wire grommet provide environmental protection. Shell has threaded holes for attaching EMI banding backshell (799-016, sold separately).

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

- 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		791-020S	H-66	M	P	C	B
Basic Part Number	791-020S Panel Plug, Socket 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						
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						

CONSTRUCTION

- Contacts: Copper alloy, gold over nickel finish
- Shell: Aluminum
- Insulators: High performance thermoplastic
- Grommet: Fluorosilicone/silicone blend
- O-ring: Code F- fluorosilicone, Code C- conductive 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		B Guide Bushing	

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.

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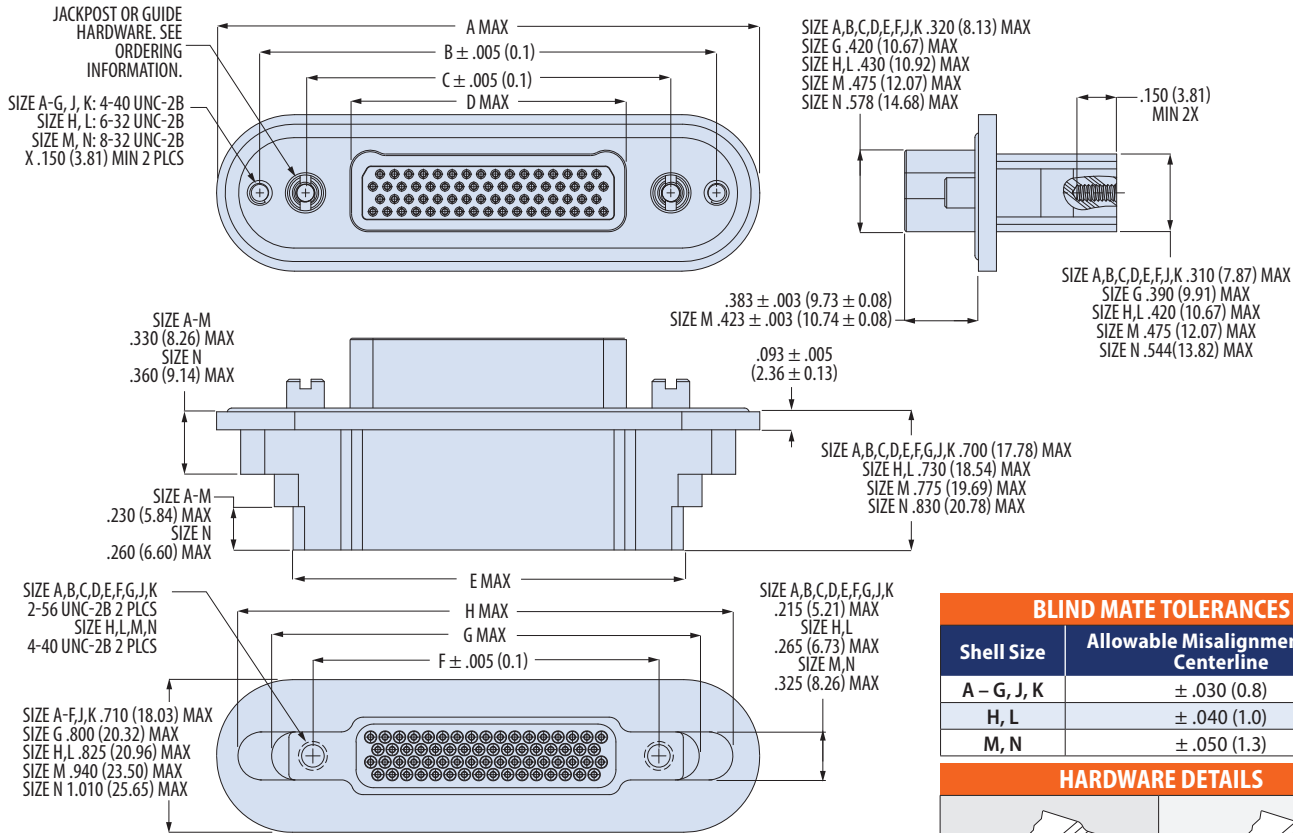
SERIES™
791
Scoop-Proof

791-020

Panel Plug

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

SERIES 791 SCOOP-PROOF



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.

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	Skt Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
					Tool	Positioner	Die Assembly
	23	809-002	22 – 28	809-088	809-015	809-005	—
	16	857-448-16	16 – 20	809-131	809-136	809-137	—
	12	857-448-12	12 – 14	809-132	809-136	809-137	—
8	850-138F	8	859-049	859-025	859-046	859-026	

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Application Note

Polarization Key Positions

See Mod Code 555 pg. B-8 for details

