

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof



791-011

Panel Receptacle, 90° PC Tails



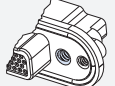
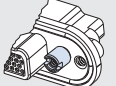
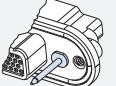
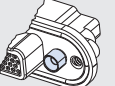
791-011 receptacle has 90° PC tails. For rear panel mounting. Mounting flange has blind threaded holes and O-ring for ingress protection. Contact tails are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Optional ground spring. Fluorosilicone face seal provides environmental protection. Available in 42 insert arrangements with up to 153 contacts.

- ◆ Right angle PCB termination
- ◆ Rear panel mount
- ◆ Pin contacts

- Aerospace-grade ultraminiature connector with scoop-proof duo-lobe shell
- Epoxy-sealed 90° PCB terminals
- 40 insert arrangements with M39029-type 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
N-13P13	N-13W13			13	
N-153		153			

HOW TO ORDER									
Sample Part Number		791-011P	J-33	M	N	P	F	B	B
Basic Part Number	791-011P		Panel Receptacle, Pin Contacts, 90° PCB Tails						
Shell Size-Insert Arr.	See <i>“Insert Arrangements”</i> 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 Bushings <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								
PC Tail Length	A .125 (3.2) B .250 (6.4) C .375 (9.5)								
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
RATINGS		CONSTRUCTION	
- 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		- Contacts: Copper alloy, gold over nickel finish - Shell, EMI shroud: Aluminum - Insulators: High performance thermoplastic - Ground spring: BeCu, electroless nickel plated - Face seal: Fluorosilicone/silicone blend - O-ring: Code F- fluorosilicone, Code C- conductive fluorosilicone - Hardware: Stainless steel	

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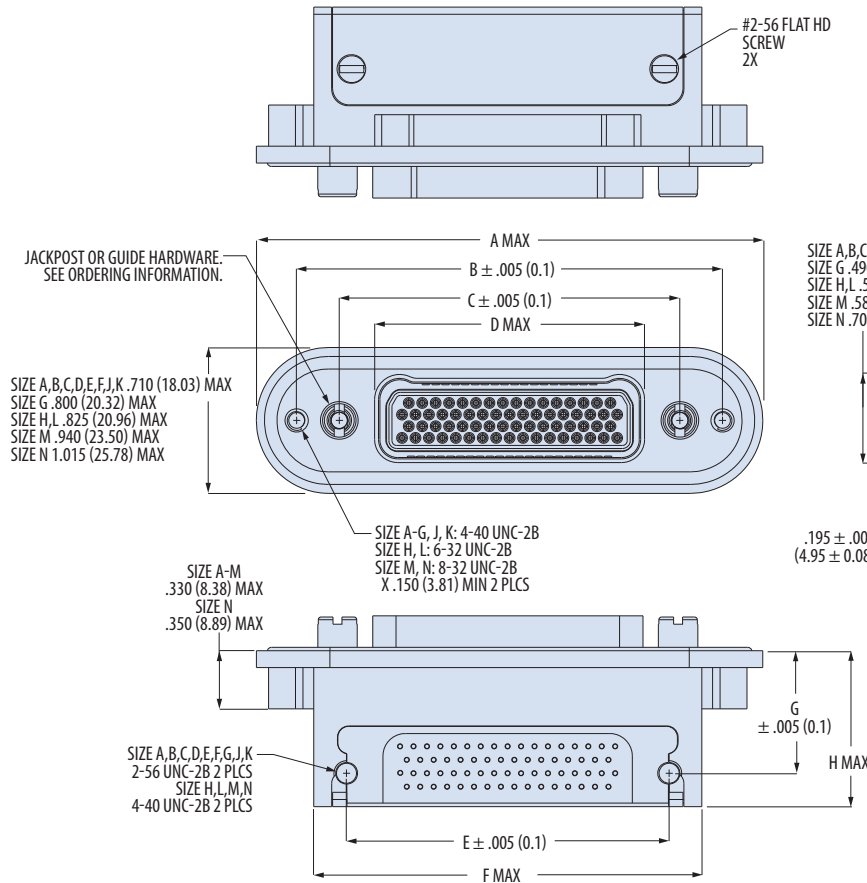
SERIES™
791
Scoop-Proof

791-011

Panel Receptacle, 90° PC Tails

- ◆ Right angle PCB termination
- ◆ Rear panel mount
- ◆ Pin contacts

SERIES 791 SCOOP-PROOF

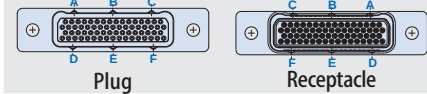


Shell Size	A Max	B ± .005 (0.1)	C ± .005 (0.1)	D Max	E ± .005 (0.1)	F Max	G ± .005 (0.1)	H Max
	in	mm	in	mm	in	mm	in	mm
A	1.565	39.8	1.150	29.2	.750	19.1	.490	12.4
B	1.715	43.6	1.300	33.0	.900	22.9	.640	16.3
C	1.865	47.4	1.450	36.8	1.050	26.7	.790	20.1
D	1.940	49.3	1.525	38.7	1.125	28.6	.865	22.0
E	2.090	53.1	1.675	42.5	1.275	32.4	1.015	25.8
F	2.240	56.9	1.825	46.4	1.425	36.2	1.165	29.6
G	2.200	55.9	1.785	45.3	1.388	35.3	1.122	28.5
H	2.835	72.0	2.375	60.3	1.900	48.3	1.516	38.5
J	2.615	66.4	2.200	55.9	1.800	45.7	1.215	30.9
K	2.990	75.9	2.575	65.4	2.175	55.2	1.615	41.0
L	3.075	78.1	2.611	66.3	2.136	54.3	1.752	44.5
M	3.345	85.0	2.824	71.7	2.200	55.9	1.815	46.1
N	3.775	95.9	3.240	82.3	2.600	66.0	2.205	56.0

Application Note

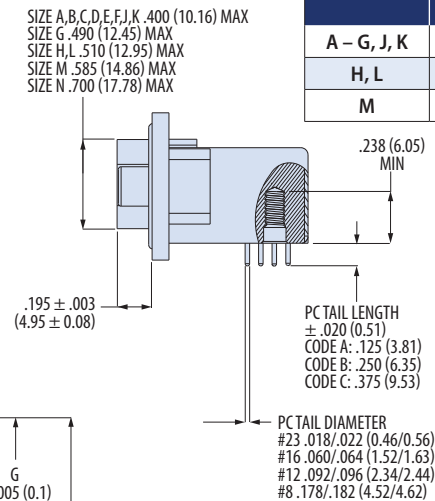
Polarization Key Positions

See Mod Code 555 pg. B-8 for details

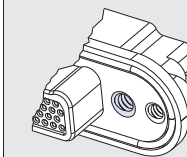


BLIND MATE TOLERANCES

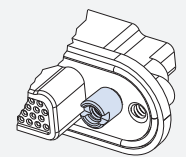
Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M	± .050 (1.3)



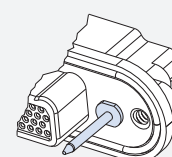
HARDWARE DETAILS



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

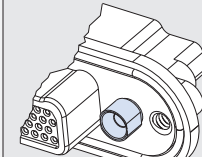


P Female Jackposts
 Jackposts are non-removable.
 Size A-G, J, K: 4-40 UNC-2B
 H, L: 6-32 UNC-2B
 M: 8-32 UNC-2B
 N: 10-32 UNF-2B



G Guide Pins

Guide pins for blind mate applications. Non-removable. Requires guide bushing (B) on mating plug.



B Guide Bushings

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

Application Note

PCB Footprints

See Section **G** for PC board layouts.

Application Note

Panel Cutout

See page B-53 for recommended panel cutout dimensions for connectors.