

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof



791-012

Panel Plug, 90° PC Tails



790-012 receptacle has right angle PC tails. Rear panel mounting flange has O-ring for ingress protection. Contact tails are sealed with epoxy. Shell has integral standoff and threaded holes for attachment to PC board. Available in 42 insert arrangements with up to 153 contacts. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- ◆ 90° PCB termination
- ◆ Rear panel mount
- ◆ Socket contacts

- Aerospace-grade ultraminiature connector with scoop-proof duo-lobe shell
- Epoxy-sealed right angle terminals with EMI shroud
- 42 insert arrangements with M39029-type contacts
- Environmental

INSERT ARRANGEMENTS				
Insert Arrangement	No. of Contacts			
	#23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4
N-13P13			13	
N-153	153			

HOW TO ORDER								
Sample Part Number		791-012S	L-6P6	MT	G	C	A	B
Basic Part Number	790-012S Panel Plug, Socket Contacts, Straight PCB Tails							
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 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
- 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

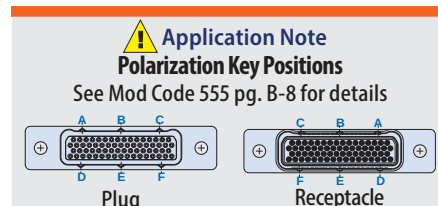
CONSTRUCTION
- Contacts: Copper alloy, gold over nickel finish - Shell: Aluminum - EMI shroud: Aluminum - Insulator: High performance thermoplastic - O-ring: Code F- fluorosilicone, Code C- conductive fluorosilicone - Hardware: Stainless steel

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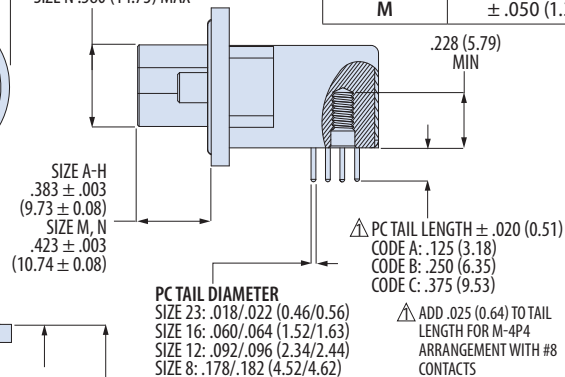
Panel Plug, 90° PC Tails

- ◆ 90° PCB termination
- ◆ Rear panel mount
- ◆ Socket contacts

SERIES 791 SCOOP-PROOF

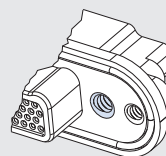


BLIND MATE TOLERANCES	
Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M	± .050 (1.3)

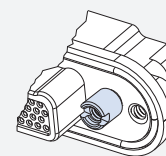


Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E ± .005 (0.1)		F Max		G ± .005 (0.1)		H Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.565	39.8	1.150	29.2	.750	19.1	.415	10.5	.565	14.4	.990	25.1	.610	15.5	.725	18.4
B	1.715	43.6	1.300	33.0	.900	22.9	.565	14.4	.715	18.2	1.140	29.0	.610	15.5	.725	18.4
C	1.865	47.4	1.450	36.8	1.050	26.7	.715	18.2	.865	22.0	1.290	32.8	.610	15.5	.725	18.4
D	1.940	49.3	1.525	38.7	1.125	28.6	.790	20.1	.965	24.5	1.365	34.7	.610	15.5	.725	18.4
E	2.090	53.1	1.675	42.5	1.275	32.4	.940	23.9	1.115	28.3	1.515	38.5	.610	15.5	.725	18.4
F	2.240	56.9	1.825	46.4	1.425	36.2	1.090	27.7	1.265	32.1	1.665	42.3	.610	15.5	.725	18.4
G	2.200	55.9	1.785	45.3	1.388	35.3	1.052	26.7	1.215	30.9	1.625	41.3	.682	17.3	.800	20.3
H	2.835	72.0	2.375	60.3	1.900	48.3	1.442	36.6	1.800	45.7	2.175	55.2	.691	17.6	.880	22.4
J	2.615	66.4	2.200	55.9	1.800	45.7	1.465	37.2	1.615	41.0	2.040	51.8	.610	15.5	.725	18.4
K	2.990	75.9	2.575	65.3	2.175	55.2	1.840	46.7	2.015	51.2	2.415	61.3	.610	15.5	.725	18.4
L	3.075	78.1	2.611	66.3	2.136	54.3	1.678	42.6	2.036	51.7	2.411	61.2	.691	17.6	.880	22.4
M	3.345	85.0	2.824	71.7	2.200	55.9	1.745	44.3	2.200	55.9	2.580	65.5	.798	20.3	.995	25.3
N	3.775	95.9	3.240	82.3	2.600	66.0	2.115	53.7	2.575	65.4	2.955	75.1	.798	20.3	1.075	27.3

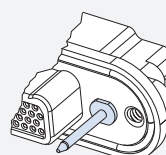
HARDWARE DETAILS



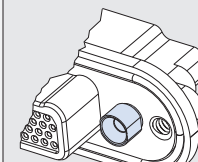
N No Hardware
Tapped holes.
Size A-G, J, K: 6-32 UNC-2B
H, L: 8-32 UNC-2B
M: 10-32 UNF-2B
N: 12-24 UNC-2B
150 (3.8) min. depth



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

 Guide Pins

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



Guide Bushings

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

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

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