

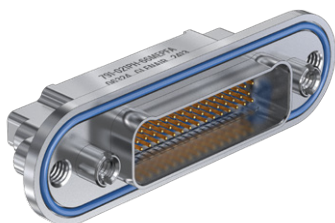
MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof



791-021

Panel Receptacle, Straight PC Tails



791-021P receptacle has straight 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 40 insert arrangements with up to 102 contacts.

- ◆ Straight PCB termination
- ◆ Rear panel mount
- ◆ Pin contacts

- Aerospace-grade ultraminiature connector with scoop-proof duo-lobe shell
- Epoxy-sealed PCB terminals
- 40 insert arrangements with M39029-type contacts
- Environmental

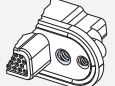
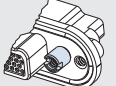
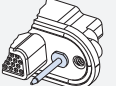
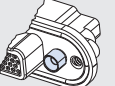
INSERT ARRANGEMENTS

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

HOW TO ORDER

Sample Part Number		791-021P	K-43	M	E	G	C	A	B
Basic Part Number	791-021P	Panel Receptacle, Pin Contacts, Straight PCB Tails							
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								
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
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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
- Insulator: 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
- Encapsulant: Epoxy

MICRO-CRIMP RECTANGULAR CONNECTORS

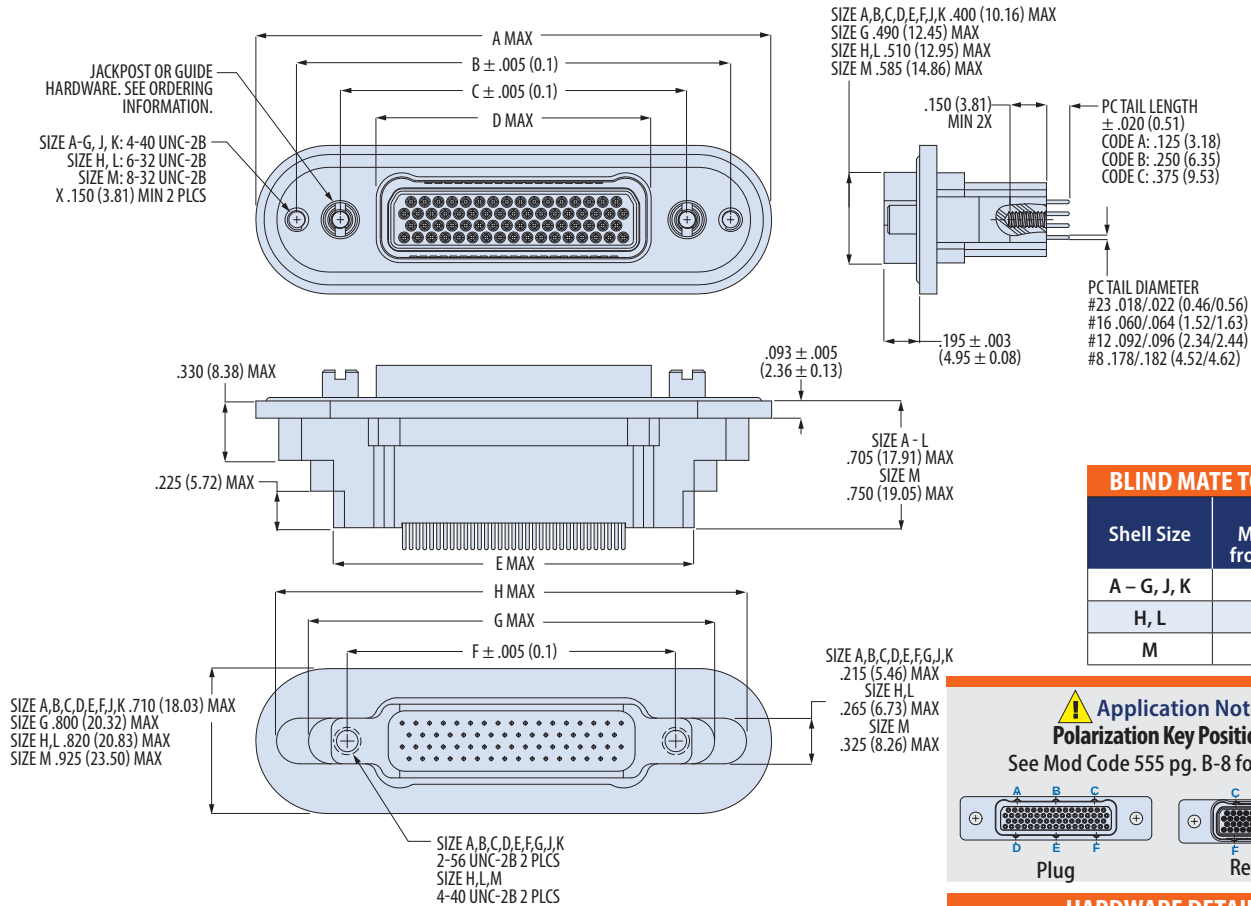
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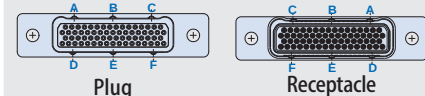


BLIND MATE TOLERANCES	
Shell Size	Allowable Misalignment from Centerline
A - G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M	± .050 (1.3)

Application Note

Polarization Key Positions

See Mod Code 555 pg. B-8 for details



HARDWARE DETAILS

N No Hardware Threaded holes.

Size A-G, J, K: 6-32 UNC-2B
H, L: 8-32 UNC-2B
M: 10-32 UNF-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

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.

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
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	1.540	39.1
K	2.990	75.9	2.575	65.4	2.175	55.2	1.915	48.6
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

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.