

MICRO-CRIMP RECTANGULAR CONNECTORS

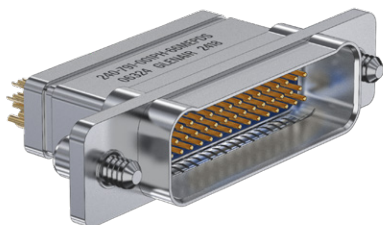
Series 791 Scoop-Proof



240-791-001

Cable Receptacle, Filtered

- ◆ Solder cup termination
- ◆ Pin contacts



240-791-001 cable receptacle has ceramic filter array to attenuate unwanted signals. Solder cup contacts. Available with two filter types (C, Pi) and 11 filter classes ranging from 35 pF to 240K pF. Shell has groove for attaching EMI banding backshell (799-293, sold separately). Available with jackscrews or screwlocks.

- Aerospace-grade filter connector with scoop-proof duo-lobe shell
- Ceramic planar array filter element
- 39 insert arrangements with M39029-type contacts
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts		
	#23	#16	#12
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		

HOW TO ORDER

Sample Part Number		240-791-001P	H-66	ME	C	D	S	B
Basic Part Number	240-791-001P	Cable Receptacle, Filtered, Pin Contacts						
Shell Size-Insert Arr.	See “Insert Arrangements” Table							
Shell Finish	ME Electroless Nickel MT Nickel / PTFE N Olive Drab Cadmium TZ Tin-Zinc ZR Black Zinc-Nickel							
Filter Type	C C Circuit P Pi Circuit							
Filter Class	See “Filter Class ” Table							
Hardware Option Table 1	K Extended Jackscrews <i>Slot head male</i> L Jackscrews <i>Socket head male</i> N Thru-Hole <i>No Hardware</i> P Female Jackposts S Screwlocks <i>Socket head male</i> T Extended Screwlocks <i>Slot head male</i>							
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							

FILTER CLASS

Filter Class	Capacitance Range (pF)	
	Filter Type P	Filter Type C
X*†	160,000-240,000	80,000-120,000
Y*	80,000-120,000	40,000-60,000
Z*	60,000-90,000	30,000-45,000
A	38,000-56,000	19,000-28,000
B	32,000-45,000	16,000-22,500
C	18,000-33,000	9,000-16,500
D	8,000-12,000	4,000-6,000
E	3,300-5,000	1,650-2,500
F	800-1,300	400-650
G	400-600	200-300
J	70-120	35-60

* Filter classes X, Y and Z are 250 VDC. All others are 500 VDC.

† Class X filters not available for arrangements with 3 or more rows of contacts.

TABLE 1 HARDWARE OPTIONS

N No Hardware Thru Mounting Holes	K Extended Jackscrew Slot Head	L Jackscrew Socket Head
P Female Jackpost With Nut and Lockwasher	S Screwlock Socket Head	T Extended Screwlock Slot Head

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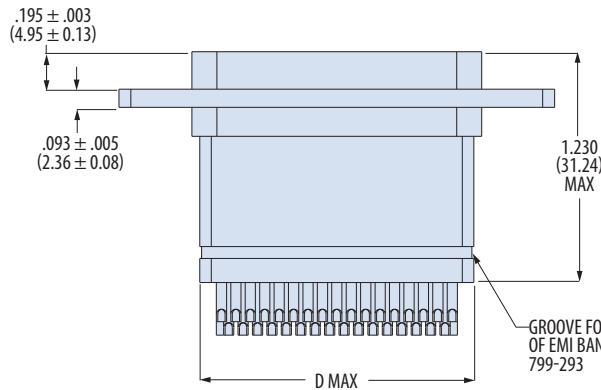
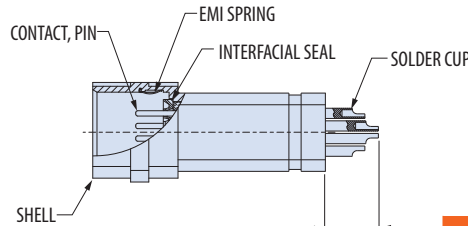
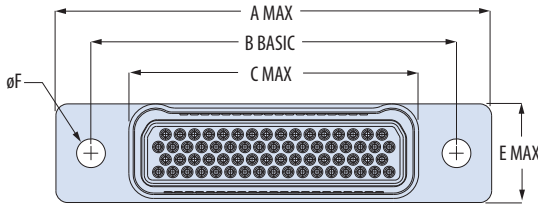
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SERIES™
791
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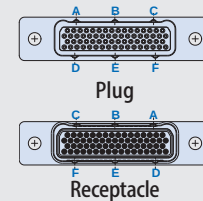


SIZE #23 OUTER ROWS .200 ± .060 (5.08 ± 1.52)
 SIZE #23 INSIDE ROWS .270 ± .060 (6.86 ± 1.52)
 SIZE #23 M-102 ARR. CENTER ROW .340 ± .060 (8.64 ± 1.52)
 SIZE #16 AND SIZE #12 IN COMBO ARRANGEMENTS .250 ± .060 (6.35 ± 1.52)
 SIZE #16 AND SIZE #12 IN POWER ARRANGEMENTS .340 ± .060 (8.64 ± 1.52)

GROOVE FOR ATTACHMENT
OF EMI BANDING ADAPTER
799-293

Application Note Polarization Key Positions

See Mod Code 555 pg. B-8 for details



Application Note Panel Mounting

For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost **799-117**. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E Max		ø F ± .005 (0.1)	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.040	26.4	.750	19.1	.490	12.4	.390	9.9	.415	10.5	.150	3.8
B	1.190	30.2	.900	22.9	.640	16.3	.540	13.7	.415	10.5	.150	3.8
C	1.340	34.0	1.050	26.7	.790	20.1	.690	17.5	.415	10.5	.150	3.8
D	1.415	35.9	1.125	28.6	.865	22.0	.790	20.1	.415	10.5	.150	3.8
E	1.565	39.8	1.275	32.4	1.015	25.8	.940	23.9	.415	10.5	.150	3.8
F	1.715	43.6	1.425	36.2	1.165	29.6	1.090	27.7	.415	10.5	.150	3.8
G	1.678	42.6	1.388	35.3	1.127	28.6	1.090	27.7	.500	12.7	.150	3.8
H	2.275	57.8	1.900	48.3	1.516	38.5	1.440	36.6	.520	13.2	.173	4.4
J	2.090	53.1	1.800	45.7	1.540	39.1	1.450	36.8	.415	10.5	.150	3.8
K	2.465	62.6	2.175	55.2	1.915	48.6	1.840	46.7	.415	10.5	.150	3.8
L	2.511	63.8	2.136	54.3	1.752	44.5	1.675	42.5	.520	13.2	.173	4.4
M	2.580	65.5	2.200	55.9	1.815	46.1	1.740	44.2	.635	16.1	.198	5.0

RATINGS

- Voltage (DWV): 500 VDC. Class X, Y, Z: 250 VDC.
- Current rating for arrangements with all contacts the same size: #23 5A, #16 13A, #12 23A
- Current rating for arrangements with mixed contact sizes: #23 5A, #16 7.5A, #12 13A
- Operating temperature: -55 to +125 °C
- Durability: 500 mating cycles
- Shock: 300 g
- Vibration: 20 g random
- Insulation resistance: 5000 megohm @ 200 VDC. Class X, Y, Z: 1000 megohm @ 83 VDC

CONSTRUCTION

- Contacts: Copper alloy, gold over nickel finish
- Shell: Aluminum
- Insulators: High performance dielectric
- Interfacial seal: Fluorosilicone/silicone blend
- EMI spring: Stainless steel, gold plated
- Hardware: Stainless steel

HARDWARE DIMENSIONS

Shell Size	Thread Size
A – G, J, K	#4-40
H, L	#6-32
M	#8-32

