

MICRO-CRIMP RECTANGULAR CONNECTORS

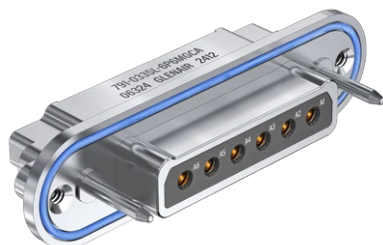
Series 791 Scoop-Proof



791-033

Panel Plug, Straight PC Tails

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

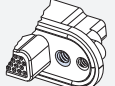
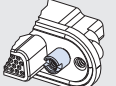
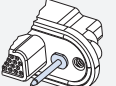
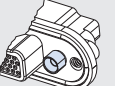


790-033 receptacle has straight PC tails. For rear panel mounting. Mounting flange has blind threaded holes and O-ring for ingress protection. Contact tails are sealed with epoxy. Shell has integral standoff and threaded holes for attachment to PC board. Available in 40 insert arrangements with up to 102 contacts. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 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		791-033S	M-102	M	G	C	A	B
Basic Part Number	790-033S		Panel Plug, Socket Contacts, Straight 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							
Hardware Option <i>Table 1</i>	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
■ Insulator: High performance thermoplastic
■ O-ring: Code F- fluorosilicone, Code C- conductive fluorosilicone
■ Hardware: Stainless steel

MICRO-CRIMP RECTANGULAR CONNECTORS

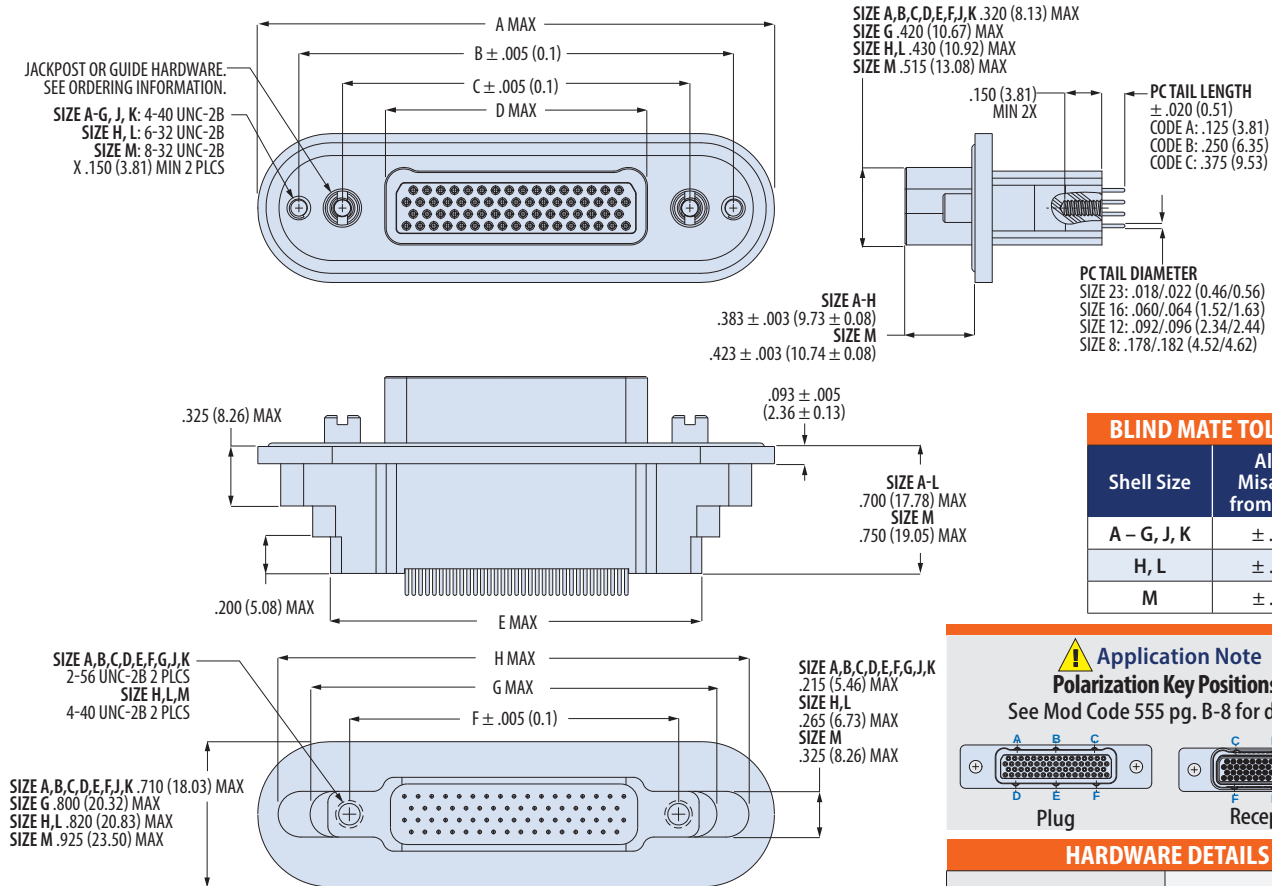
Series 791 Scoop-Proof



791-033

Panel Plug, Straight PC Tails

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



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

Plug Receptacle

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
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	in	mm	in	mm	in	mm	in	mm
A	1.565	39.8	1.150	29.2	.750	19.1	.415	10.5	.760	19.3	.565	14.4	.960	24.4	1.345	34.2
B	1.715	43.6	1.300	33.0	.900	22.9	.565	14.4	.910	23.1	.715	18.2	1.110	28.2	1.495	38.0
C	1.865	47.4	1.450	36.8	1.050	26.7	.715	18.2	1.060	26.9	.865	22.0	1.260	32.0	1.645	41.8
D	1.940	49.3	1.525	38.7	1.125	28.6	.790	20.1	1.160	29.5	.965	24.5	1.360	34.5	1.745	44.3
E	2.090	53.1	1.675	42.5	1.275	32.4	.940	23.9	1.310	33.3	1.115	28.3	1.510	38.4	1.895	48.1
F	2.240	56.9	1.825	46.4	1.425	36.2	1.090	27.7	1.460	37.1	1.265	32.1	1.660	42.2	2.045	51.9
G	2.200	55.9	1.785	45.3	1.388	35.3	1.052	26.7	1.410	35.8	1.215	30.9	1.633	41.5	1.983	50.4
H	2.835	72.0	2.375	60.3	1.900	48.3	1.442	36.6	2.045	51.9	1.800	45.7	2.240	56.9	2.590	65.8
J	2.615	66.4	2.200	55.9	1.800	45.7	1.465	37.2	1.810	46.0	1.615	41.0	2.010	51.1	2.395	60.8
K	2.990	75.9	2.575	65.4	2.175	55.2	1.840	46.7	2.210	56.1	2.015	51.2	2.410	61.2	2.795	71.0
L	3.075	78.1	2.611	66.3	2.136	54.3	1.678	42.6	2.281	57.9	2.036	51.7	2.476	62.9	2.826	71.8
M	3.333	84.6	2.824	71.7	2.200	55.9	1.745	44.3	2.445	62.1	2.200	55.9	2.650	67.3	3.090	78.5

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.

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof

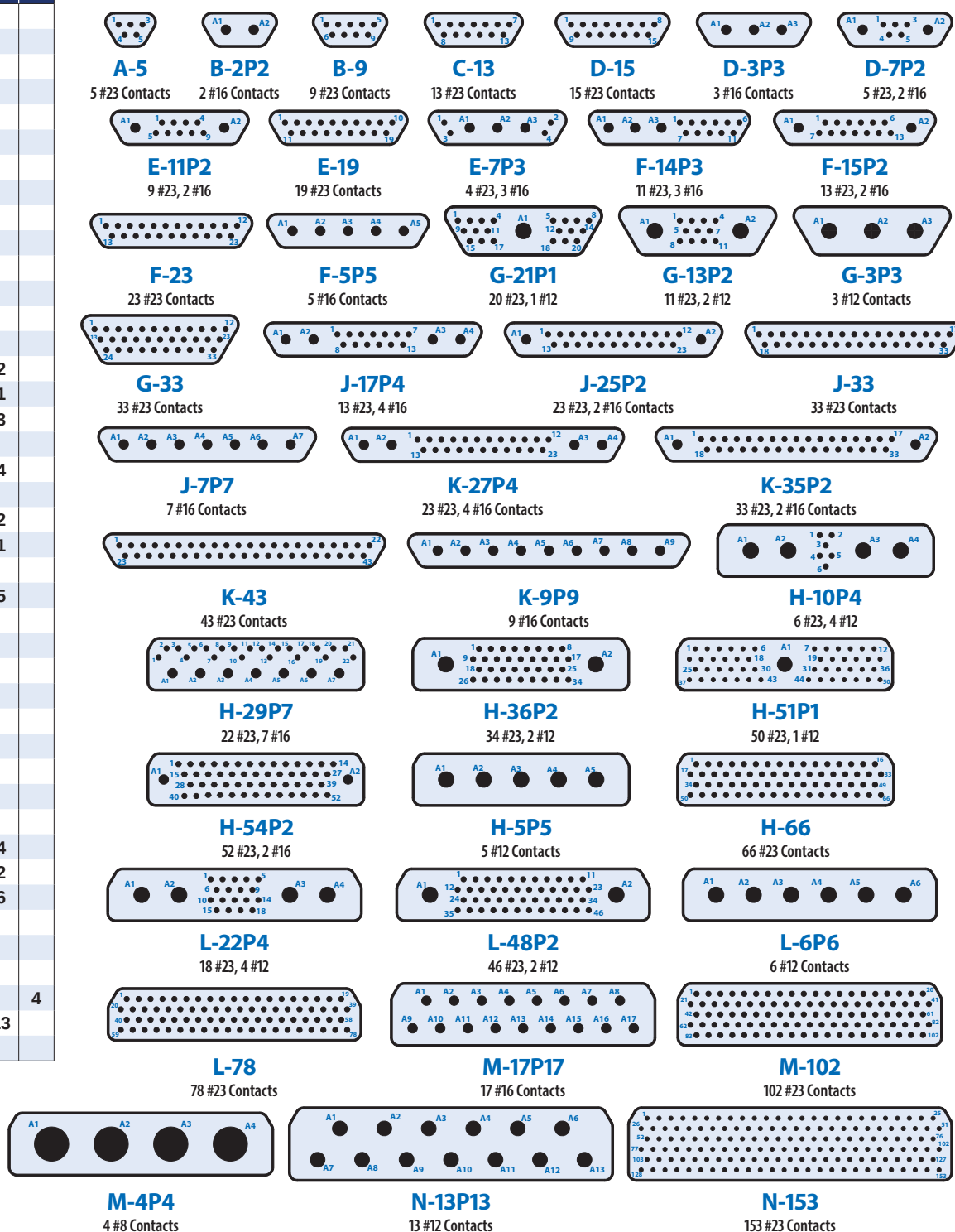


Insert Arrangements

INSERT ARRANGEMENTS				
Insert Arr.	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			

⚠ Cavity Numbers

Cavity numbers shown are for mating face of receptacle (pin) connector. Plug (socket) numbers are reversed.



MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof



Series 791 Material and Finish Options

SERIES 791 SCOOP-PROOF

The Series 791 Scoop-Proof connector is available in five preferred finishes: **electroless nickel, nickel-PTFE, tin-zinc, cadmium, and zinc-nickel.**

Additional material and finish options are available. Replace the preferred plating code with the alternate code from the table below.

TIN-ZINC PLATING

The United States Department of Defense (DOD) has mandated the elimination of cadmium from DOD weapons systems because of toxicity concerns. The European Union has also restricted the use of cadmium on electronics equipment (RoHS). Tin-Zinc is a RoHS cadmium-free sacrificial finish that offers high conductivity and shielding performance, corrosion resistance, solderability, and proven compatibility with legacy cadmium and zinc-nickel finishes. Tin-Zinc is DLA-qualified and RoHS compliant.

SERIES 79 SHELL FINISH OPTIONS

	Electroless Nickel	Nickel-PTFE	Tin-Zinc	Olive Drab Cadmium	Black Zinc-Nickel
Glenair Code	M	MT	TZ	N	ZR
Corrosion Resistance	Fair	Excellent	Excellent	Excellent	Excellent
Salt Spray Hours	48	500	500	500	500
Conductivity	Excellent	Excellent	Very Good	Very Good	Very Good
RoHS Compliant ⁽¹⁾	Yes	Yes	Yes	No	Yes

⁽¹⁾ Does not contain cadmium or hexavalent chromium. Meets EU requirements.

ALTERNATE SHELL MATERIAL AND FINISH CODES

Code	Shell Material	Shell Finish	Finish Specification	Salt Spray Hrs.	Electrical Conductivity	RoHS ⁽¹⁾
C	Alum	Anodize, Black	MIL-PRF-8625	48	Non-Conductive	✓
E⁽²⁾	Alum	Chem Film, Gold	MIL-DTL-5541	168	Conductive	
J	Alum	Cadmium, Yellow	AMS-QQ-P-416	500	Conductive	
Z1	SST	Passivate	AMS2700	500	Conductive	✓
Z2	Alum	Gold	MIL-DTL-45204	48	Conductive	✓
ZM	SST	Electroless Nickel	AMS-C-26074	500	Conductive	✓
ZMT	SST	Nickel-PTFE	AMS2454	1000	Conductive	✓
ZW	SST	Cadmium, Olive Drab	AMS-QQ-P-416	500	Conductive	
ZZR	SST	Zinc-Nickel, Black	ASTM B841	500	Conductive	✓

⁽¹⁾ Does not contain cadmium or hexavalent chromium. Meets EU requirements.

⁽²⁾ Maximum temperature = +125°C

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof



Specifications

SERIES 791 SCOOP-PROOF

CONSTRUCTION

Contacts	Copper alloy, gold over nickel finish
Hood, socket contact	Stainless steel, passivated
Clip, contact retaining	Beryllium copper
Clip, insert retaining	Beryllium copper
Insulators	High performance thermoplastic
Grommet and face seal	Fluorosilicone/silicone blend
Shell	Aluminum
O-ring	Fluorosilicone
EMI spring	Beryllium copper, electroless nickel plated
EMI shroud (90° PCB)	Aluminum
Encapsulant (PCB)	Epoxy
Hardware	Stainless steel, passivated

RATINGS

Voltage (DWV)	Size 23 contacts: 750 VAC Size 8, 12 and 16 contacts: 1800 VAC	
Current Rating	Contact Size	Current (A)
	#23	5
	#16	13
	#12	23
	#8	46
Operating Temperature	-65 to +150 °C	
Ingress Protection	IP67	
Durability	500 mating cycles	

PRODUCT SPECIFICATIONS

Description	Requirement	Procedure
Contact Resistance	SAE AS39029 Table 5	EIA-364-06
Low Level Contact Resistance	SAE AS39029 Table 4	EIA-364-23
Insulation Resistance	5000 megohms minimum	EIA-364-21
Dielectric Withstanding Voltage	#23 contacts 750 volts, #8, 12 & 16 contacts 1800 volts	EIA-364-20
Current Rating	#23: 5A, #16: 13A, #12: 23A, #8: 46A	EIA-364-70 Method 1
Shell-to-shell Resistance	2.5 millivolt drop maximum (connector with EMI spring)	EIA-364-83
Shielding Effectiveness	100 – 1000MHz: >50 dB, 1 – 4GHz: >41dB, 4 – 10GHz: >35 dB	EIA-364-66
Ingress Protection	IP67 rating	IEC-60529
Vibration, Sine	20 g	EIA-364-28 Test Condition IV
Vibration, Random	16.91 g rms	EIA-364-28 Test Condition V Letter E
Mechanical Shock	300 g	EIA-364-27 Condition D
Thermal Shock	-65 to +150 °C	EIA-364-32 Test Condition IV
Humidity	10 Day, +25 to +65° C	EIA-364-31 Method IV, Step 7b vibration deleted
Mechanical Durability	500 mating cycles	EIA-364-09
Salt Spray	Plating code M: 48 hours, MT, ZR, N, TZ: 500 hours	EIA-364-26
Solderability, PC Tail Contacts	95% solder coverage. Smooth, bright and even finish.	EIA-364-52 Category 3, 8 hours steam aging
Resistance To Soldering Heat	260° C, 10 seconds	EIA-364-56
Fluid Immersion	No damage from immersion in various fuels and oils.	EIA-364-10
Altitude Immersion	75,000 feet	EIA-364-03
Contact Retention	MIL-DTL-38999 Table XVIII	EIA-364-29
Contact Separation Force	SAE AS39029 Table 9	EIA-364-37
Magnetic Permeability	2 μ maximum.	EIA-364-54

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof



Panel Cutout, 791 Panel Mount Connectors

PANEL CUTOUT FOR SERIES 791 PANEL MOUNT CONNECTORS

This cutout is compatible with:

Panel Mount Connectors

791-019
791-020

Panel Mount PCB Connectors

791-011
791-012
791-021
791-033

$\oplus \varnothing .003(0.08) \text{ (M) } \text{A (M) } \text{B (M)}$

SIZE A - G, J, K: $\varnothing .120 \pm .002 (3.05 \pm 0.05)$
C-SINK 82° @ $\varnothing .19(4.83) 2X$

SIZE H, L: $\varnothing .144 \pm .003 (3.66 \pm 0.08)$
C-SINK 82° @ $\varnothing .239 (6.07) 2X$

SIZE M, N: $\varnothing .172 \pm .003 (4.37 \pm 0.08)$
C-SINK 82° @ $\varnothing .330 (8.38) 2X$

NON-STANDARD UNDERSIZED DIAMETER FOR FLATHEAD SCREW.

TWO FLATHEAD SCREWS ARE INCLUDED WITH CONNECTOR

$\oplus \varnothing .003(0.08) \text{ (M) } \text{A (M) } \text{B (M)}$

E
TYP.

Shell Size	± .002 (0.05)		± .002 (0.05)		C Basic		D Basic		E Typ		± .002 (0.05)		G Rad ± .002 (0.05)		H Rad ± .002 (0.05)	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.505	12.83	.418	10.62	.750	19.05	1.150	29.21	.199	5.05	.210	5.33	.110	2.79	.164	4.17
B	.655	16.64	.418	10.62	.900	22.86	1.300	33.02	.199	5.05	.210	5.33	.110	2.79	.164	4.17
C	.805	20.45	.418	10.62	1.050	26.67	1.450	36.83	.199	5.05	.210	5.33	.110	2.79	.164	4.17
D	.880	22.35	.418	10.62	1.125	28.58	1.525	38.74	.199	5.05	.210	5.33	.110	2.79	.164	4.17
E	1.030	26.16	.418	10.62	1.275	32.39	1.675	42.55	.199	5.05	.210	5.33	.110	2.79	.164	4.17
F	1.180	29.97	.418	10.62	1.425	36.20	1.825	46.36	.199	5.05	.210	5.33	.110	2.79	.164	4.17
G	1.142	29.01	.506	12.85	1.388	35.26	1.785	45.34	.244	6.20	.210	5.33	.110	2.79	.164	4.17
H	1.531	38.89	.521	13.23	1.900	48.26	2.375	60.33	.250	6.35	.236	5.99	.150	3.81	.139	3.53
J	1.555	39.50	.418	10.62	1.800	45.72	2.200	55.88	.199	5.05	.210	5.33	.110	2.79	.164	4.17
K	1.930	49.02	.418	10.62	2.175	55.25	2.575	65.41	.199	5.05	.210	5.33	.110	2.79	.164	4.17
L	1.767	44.88	.521	13.23	2.136	54.25	2.611	66.32	.250	6.35	.236	5.99	.150	3.81	.139	3.53
M	1.850	46.99	.623	15.82	2.200	55.88	2.824	71.73	.290	7.37	.262	6.65	.163	4.14	.153	3.89
N	2.244	57.00	.708	17.98	2.600	66.04	3.240	82.30	.332	8.43	.295	7.49	.163	4.14	.153	3.89

SERIES 79 MICRO-CRIMP RECTANGULAR CONNECTORS

PCB Footprints for Series 790 and 791



Straight PCB Footprints for Series 790 and 791 Connectors

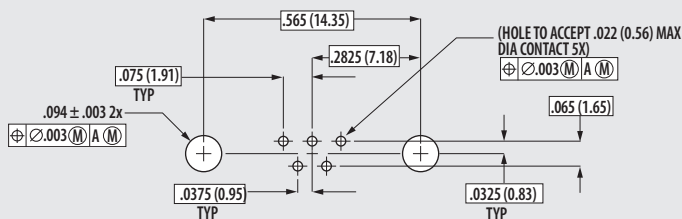
PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS



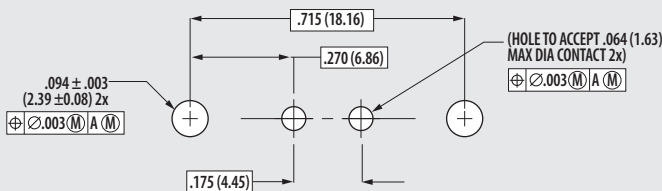
PCB hole patterns are shown for the **component mounting side** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with straight tails: 790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033



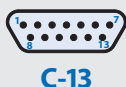
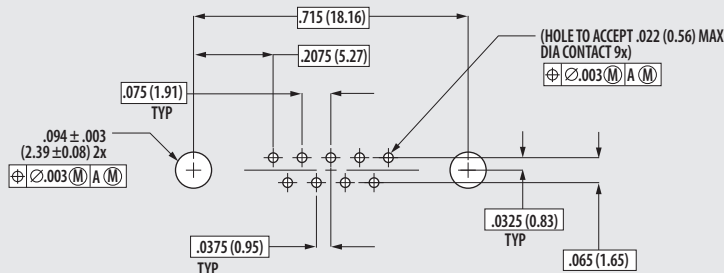
A-5
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



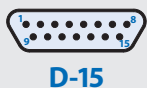
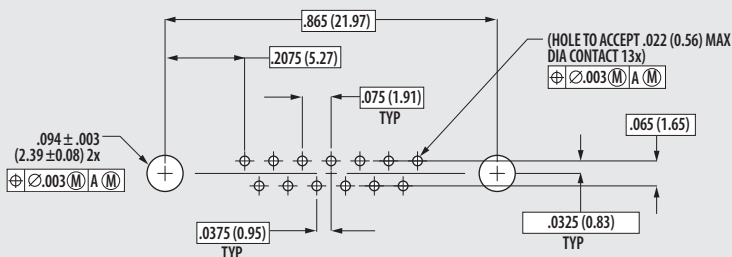
B-2P2
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



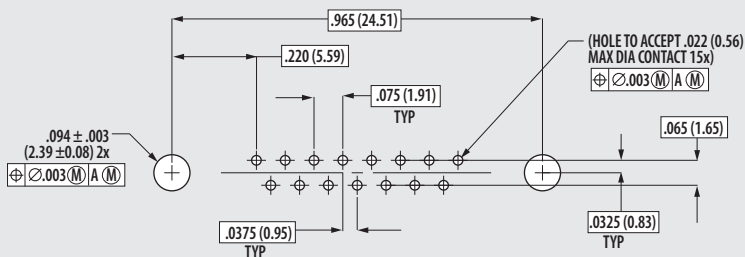
B-9
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



C-13
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



D-15
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



PCB FOOTPRINTS FOR SERIES 790, 791

PCB FOOTPRINTS FOR SERIES 790, 791

Circuit board drill patterns for Series 790 and 791 connectors with straight tails: 790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033

[illegible]

Feature Control Frame Example 10

The diagram illustrates a shaft with the following specifications:

- Overall Diameter: $.094 \pm .003$ (2.39 ± 0.08) x
- Hole 1: (HOLE TO ACCEPT .064 (1.63) MAX DIA CONTACT 2X)
- Hole 2: (HOLE TO ACCEPT .022 (0.56) MAX DIA CONTACT 9x)
- Hole 3: .075 (1.91) TYP
- Hole 4: .0375 (0.95) TYP
- Hole 5: .065 (1.65)
- Hole 6: .0325 (0.83) TYP



Technical drawing of a mechanical part with dimensions and tolerances. The drawing shows a cross-section of a cylindrical part with a central hole. The dimensions and tolerances are as follows:

- Overall length: 1.115 (28.32)
- Distance from left face to center of hole: .220 (5.59)
- Distance from center of hole to right face: .075 (1.91) TYP
- Distance from left face to center of hole: .094 ± .003 (2.39 ± 0.08) 2x
- Distance from center of hole to right face: .0375 (0.95) TYP
- Distance from center of hole to right face: .0325 (0.83) TYP
- Distance from center of hole to right face: .065 (1.65)
- Surface texture symbol: (HOLE TO ACCEPT .022 (0.56) MAX DIA CONTACT 19x)
- Surface texture symbol: (2.003 (M) A (M))
- Surface texture symbol: (2.003 (M) A (M))

[illegible]

SERIES 79 MICRO-CRIMP RECTANGULAR CONNECTORS

PCB Footprints for Series 790 and 791

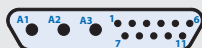


Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS



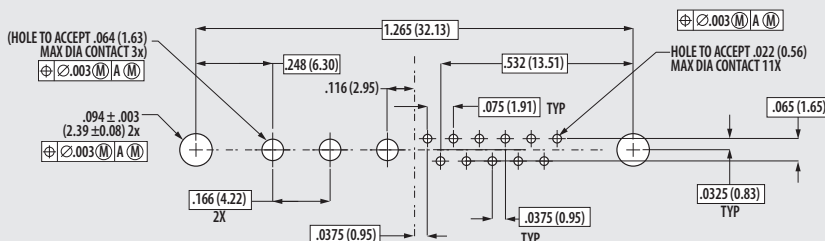
PCB hole patterns are shown for the *component mounting side* of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with straight tails: 790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033



F-14P3

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

Non-symmetrical arrangement
Pattern must be reversed for use with plug (socket) connector.

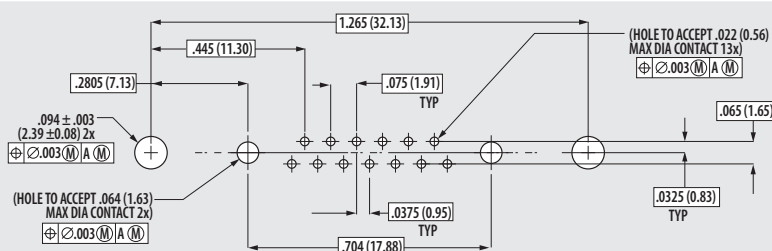


PCB HOLE PATTERN IS FOR PIN CONNECTOR. SOCKET CONNECTOR IS MIRRORED.



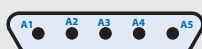
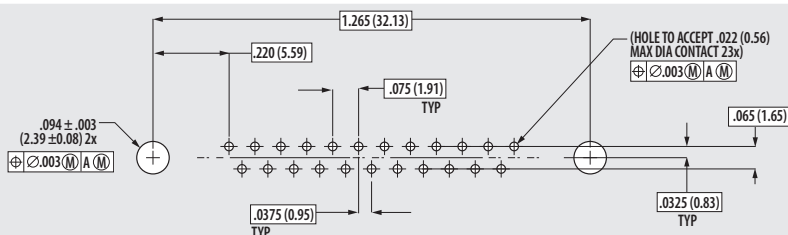
F-15P2

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



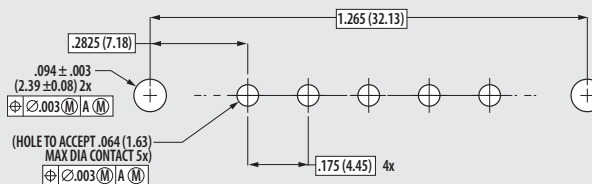
F-23

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



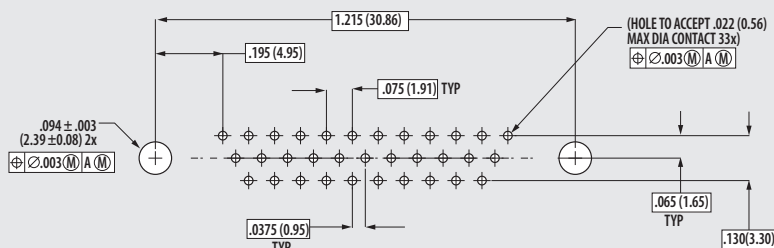
F-5P5

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



G-33

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



PCB FOOTPRINTS FOR SERIES 790, 791

SERIES 79 MICRO-CRIMP RECTANGULAR CONNECTORS

PCB Footprints for Series 790 and 791

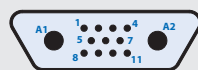
SERIES
79
TM

Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS

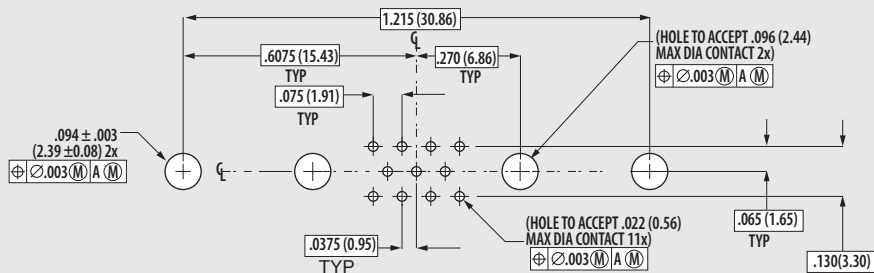


PCB hole patterns are shown for the *component mounting side* of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with straight tails:
790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033



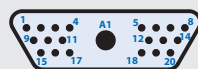
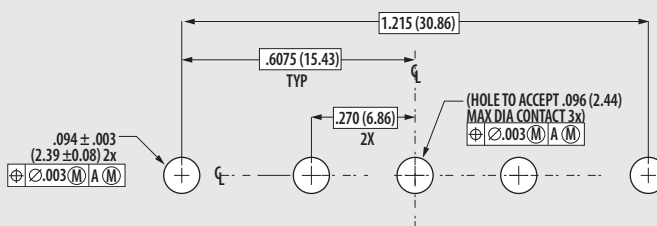
G-13P2

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



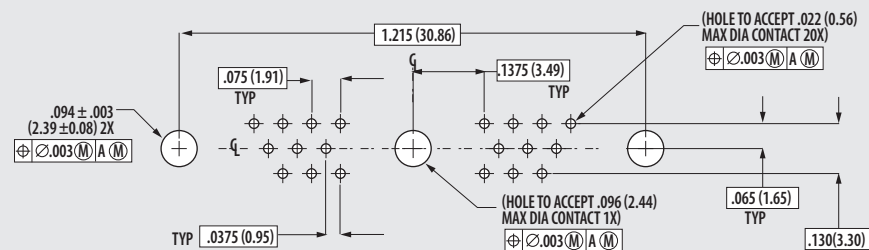
G-3P3

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



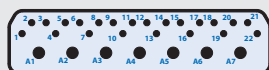
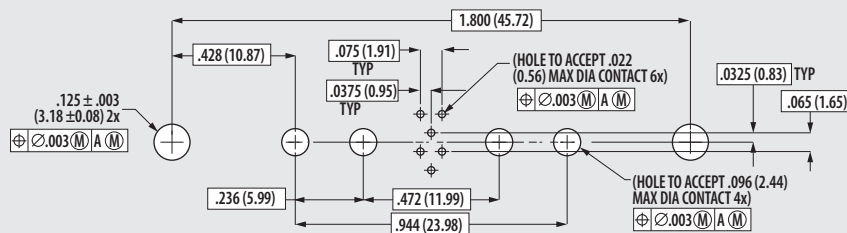
G-21P1

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



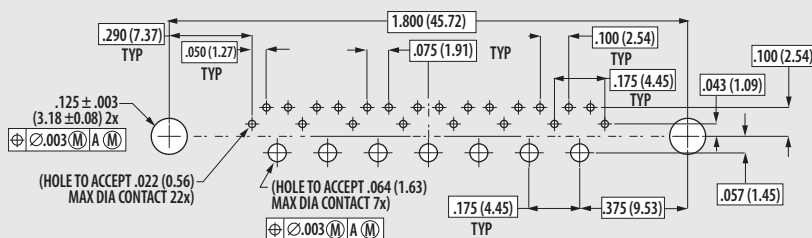
H-10P4

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



H-29P7

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



SERIES 79 MICRO-CRIMP RECTANGULAR CONNECTORS

PCB Footprints for Series 790 and 791



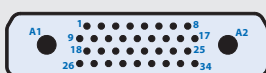
Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS



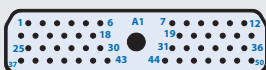
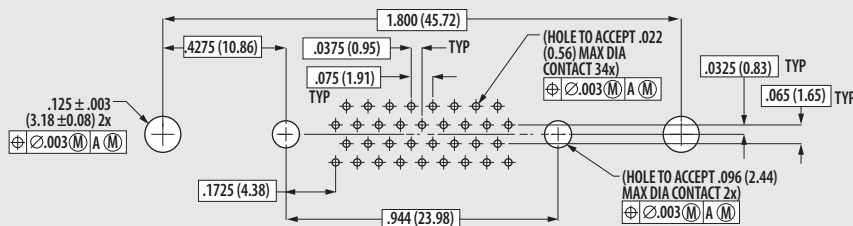
PCB hole patterns are shown for the *component mounting side* of the circuit board.

Circuit board drill patterns for Series 790 and 791 connectors with straight tails: 790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033



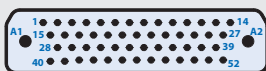
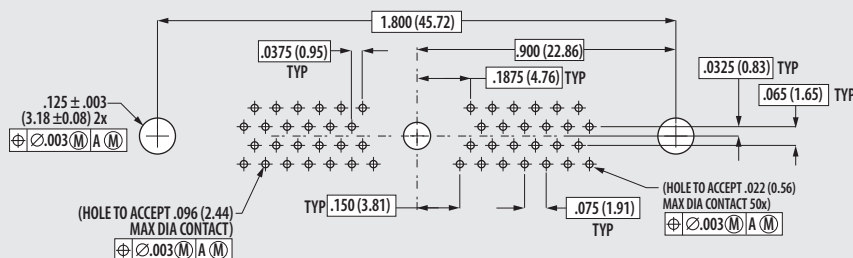
H-36P2

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



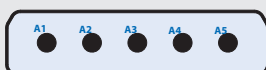
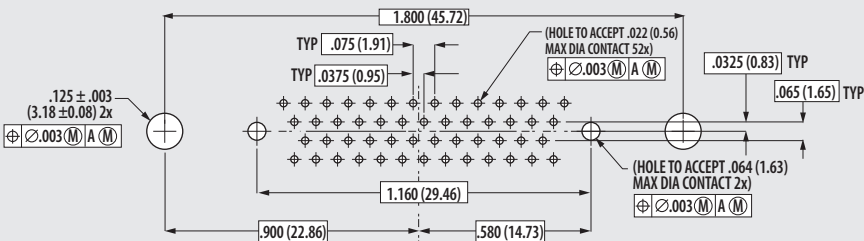
H-51P1

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



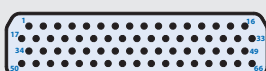
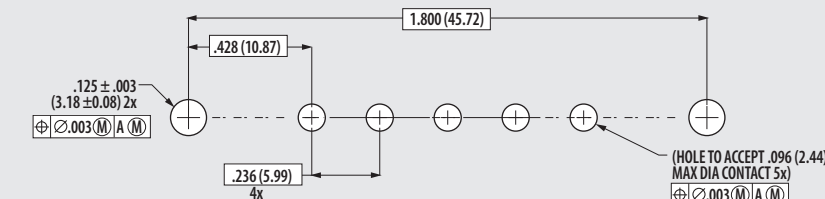
H-54P2

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



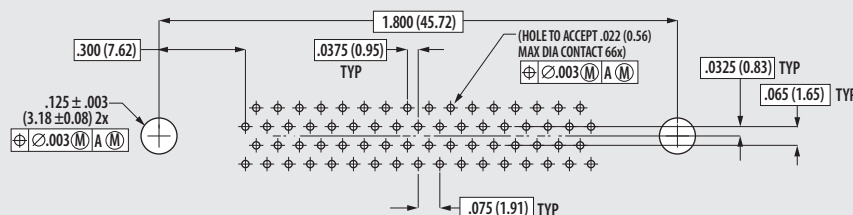
H-5P5

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



H-66

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



PCB FOOTPRINTS FOR SERIES 790, 791

SERIES 79 MICRO-CRIMP RECTANGULAR CONNECTORS

PCB Footprints for Series 790 and 791

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Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS



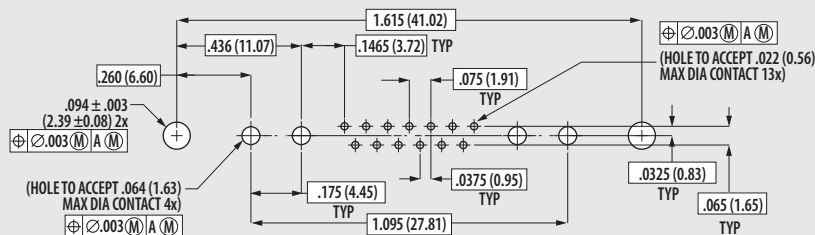
PCB hole patterns are shown for the *component mounting side* of the circuit board.

Circuit board drill patterns for Series 790 and 791 connectors with straight tails: 790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033



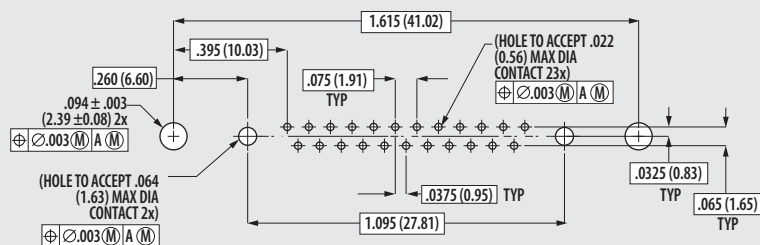
J-17P4

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



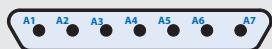
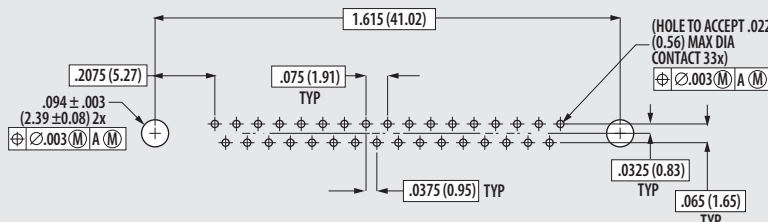
J-25P2

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



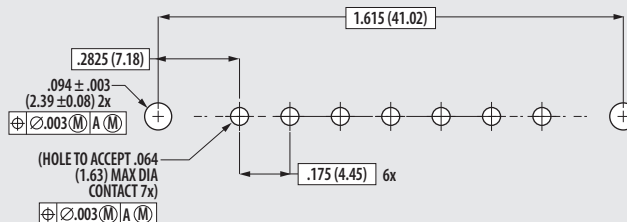
J-33

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



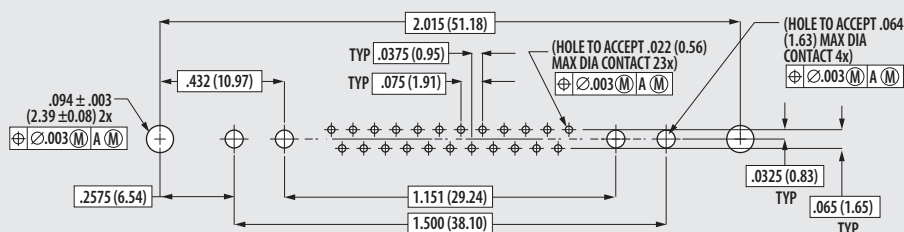
J-7P7

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



K-27P4

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



SERIES 79 MICRO-CRIMP RECTANGULAR CONNECTORS

PCB Footprints for Series 790 and 791



Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS

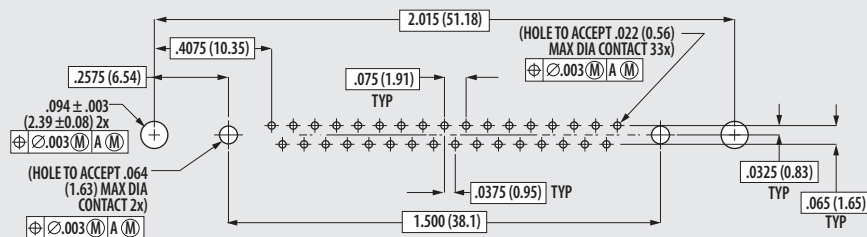


PCB hole patterns are shown for the *component mounting side* of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with straight tails: 790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033



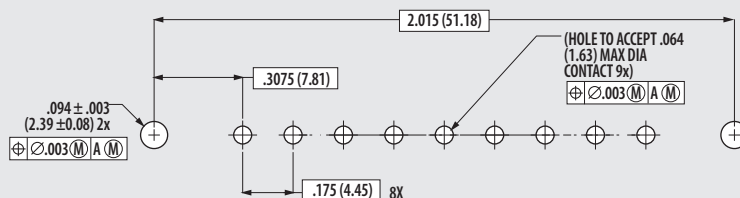
K-35P2

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



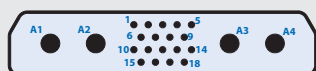
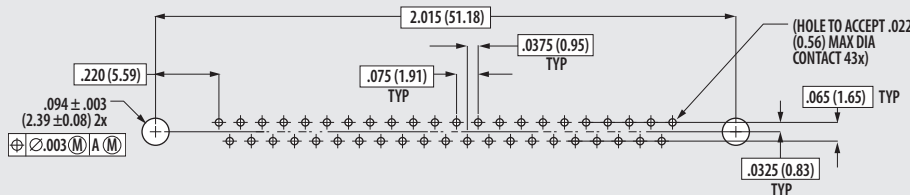
K-43

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



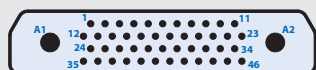
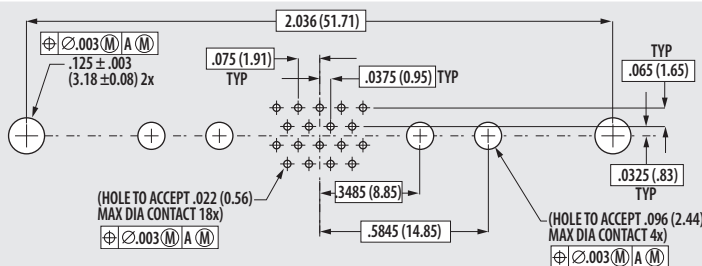
K-9P9

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



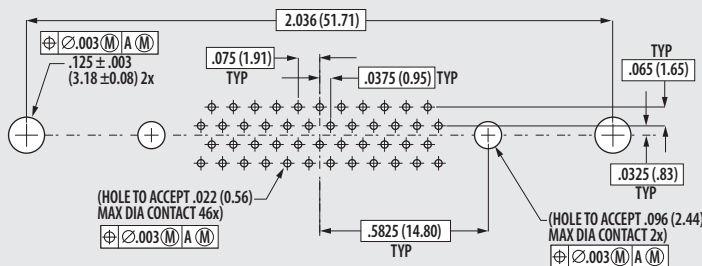
L-22P4

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



L-48P2

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



SERIES 79 MICRO-CRIMP RECTANGULAR CONNECTORS

PCB Footprints for Series 790 and 791

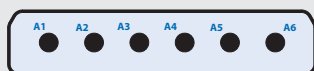
SERIES
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TM

Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS

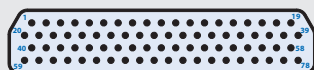
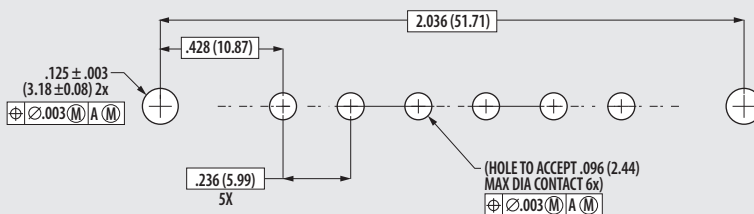


PCB hole patterns are shown for the *component mounting side* of the circuit board.
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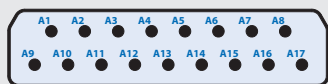
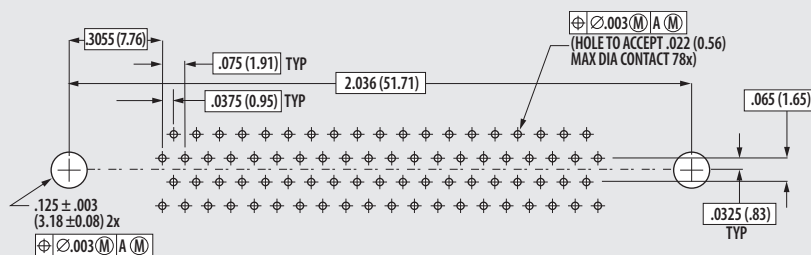
L-6P6

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



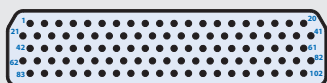
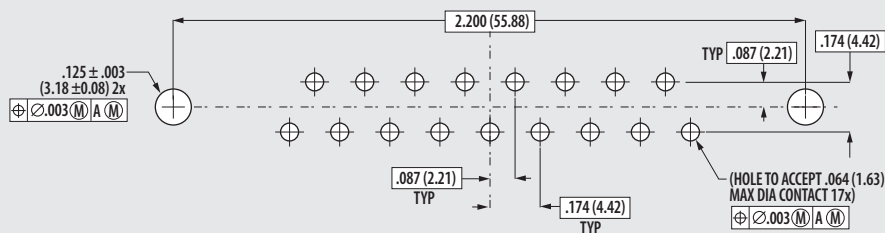
L-78

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



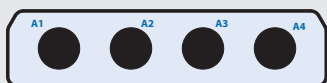
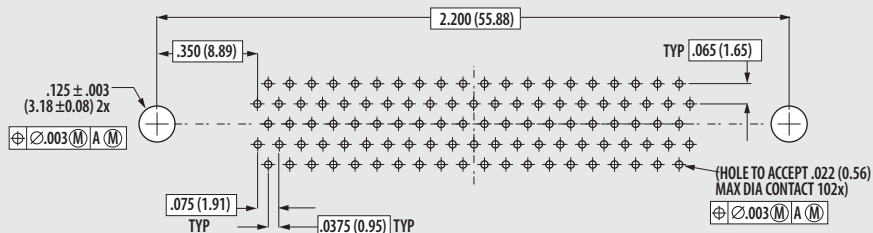
M-17P17

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



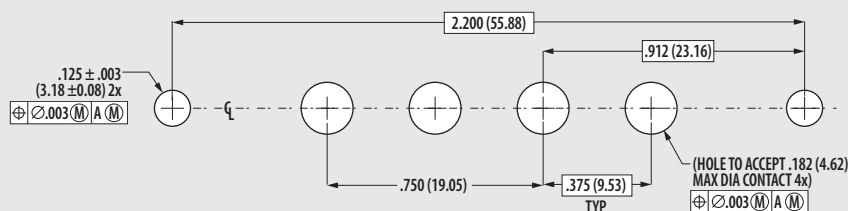
M-102

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



M-4P4

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



SERIES 79 MICRO-CRIMP RECTANGULAR CONNECTORS

PCB Footprints for Series 790 and 791

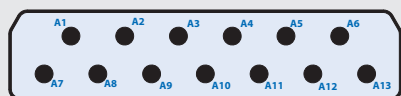


Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS

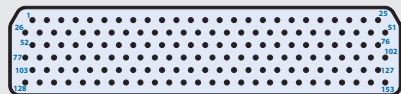
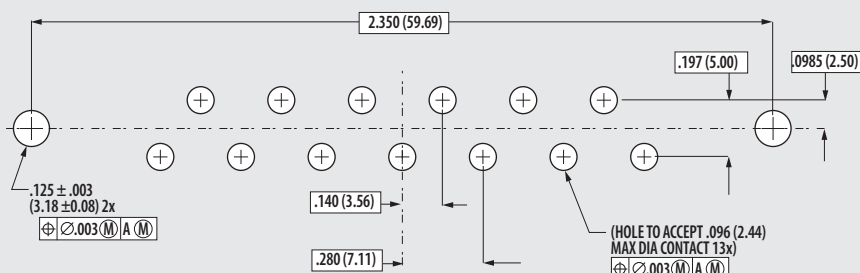


PCB hole patterns are shown for the *component mounting side* of the circuit board.
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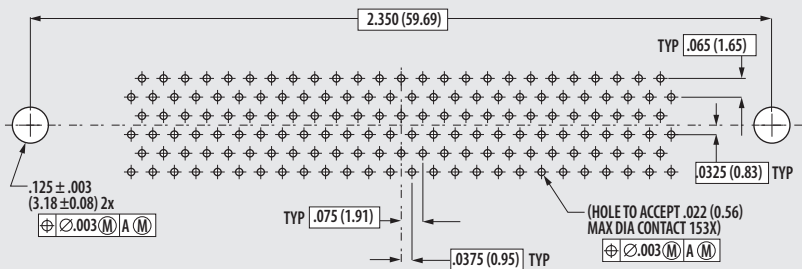
N-13P13

Contact numbers are mating face of pin connector. Socket connector contact numbers are reversed.



N-153

Contact numbers are mating face of pin connector. Socket connector contact numbers are reversed.



PCB FOOTPRINTS FOR SERIES 790, 791

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof



Series 791 Polarization Keying Option

OPTIONAL POLARIZATION KEYS



To prevent mis-mating of identical shell size and insert arrangement connectors

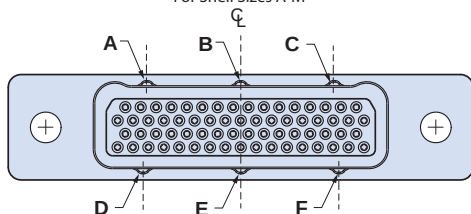
Series 791 connectors are available with an integral polarizing key. Keyed plug connectors have a raised boss on the shell. Receptacles have corresponding keyway. Ordering is simple—just add the keying position letter designator to the end of the part number.

Note: keyed receptacles will mate with unkeyed plugs. Additional polarization keying positions are available, consult the factory for designators and key locations.

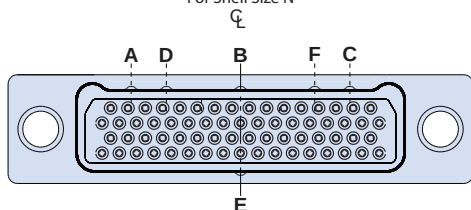
HOW TO ORDER

Step 1	Create a Series 791 connector part number:	791-003SH-66MP
Step 2	Add the keying position letter designator A, B, C, D, E, or F to the part number.	791-003SH-66MPB

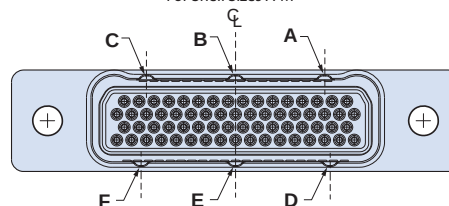
MOD-555 KEY LOCATIONS PLUG CONNECTOR MATING FACE
For Shell Sizes A-M



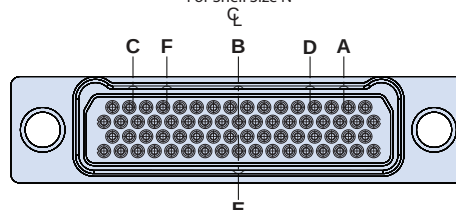
MOD-555 KEY LOCATIONS PLUG CONNECTOR MATING FACE
For Shell Size N



MOD-555 KEY LOCATIONS RECEPTACLE CONNECTOR MATING FACE
For Shell Sizes A-M



MOD-555 KEY LOCATIONS RECEPTACLE CONNECTOR MATING FACE
For Shell Size N



POLARIZING KEY LOCATIONS SHELL SIZES A-M

Shell Size	Key Position Offset From Vertical Centerline											
	Position A		Position B		Position C		Position D		Position E		Position F	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	N/A	N/A	.000	0.00	N/A	N/A	.025	0.64	.000	0.00	.025	0.64
B	.090	2.29	.000	0.00	.090	2.29	.050	1.27	.000	0.00	.050	1.27
C	.130	3.30	.000	0.00	.130	3.30	.100	2.54	.000	0.00	.100	2.54
D	.180	4.57	.000	0.00	.180	4.57	.125	3.18	.000	0.00	.125	3.18
E	.200	5.08	.000	0.00	.200	5.08	.150	3.81	.000	0.00	.150	3.81
F	.300	7.62	.000	0.00	.300	7.62	.250	6.35	.000	0.00	.250	6.35
G	.300	7.62	.000	0.00	.300	7.62	.200	5.08	.000	0.00	.200	5.08
H	.450	11.43	.000	0.00	.450	11.43	.500	12.70	.000	0.00	.500	12.70
J	.450	11.43	.000	0.00	.450	11.43	.400	10.16	.000	0.00	.400	10.16
K	.650	16.51	.000	0.00	.650	16.51	.550	13.97	.000	0.00	.550	13.97
L	.550	13.97	.000	0.00	.550	13.97	.600	15.24	.000	0.00	.600	15.24
M	.550	13.97	.000	0.00	.550	13.97	.600	15.24	.000	0.00	.600	15.24
N	.700	17.78	.000	0.00	.700	17.78	.475	12.06	.000	0.00	.475	12.06