791-012
Panel Plug, 90° PC Tails

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

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.

- 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

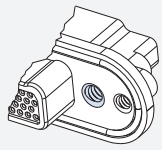
Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
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

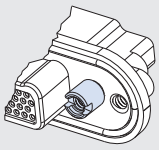
Sample Part Number 791-012S L-6P6 MT G C A B

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
	N	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Hardware Option *Table 1*	B	Guide Bushings *For blind mating*
	G	Guide Pins *For blind mating*
	N	No Hardware *Threaded holes*
	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	

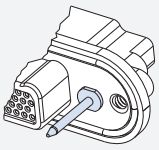
TABLE 1 HARDWARE OPTION



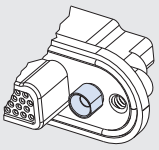
N No Hardware



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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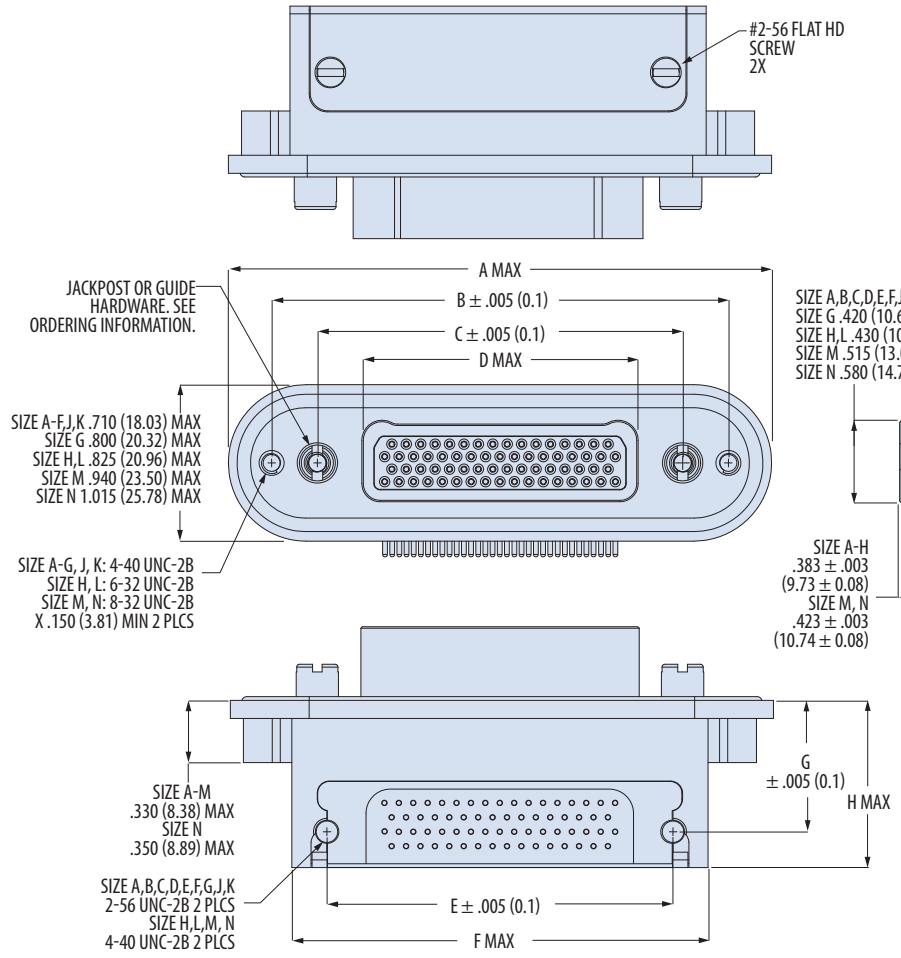
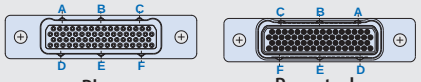
SERIES 791 SCOOP-PROOF

791-012
Panel Plug, 90° PC Tails

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



Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details

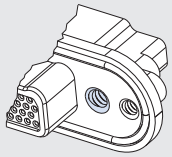


BLIND MATE TOLERANCES

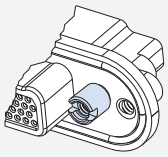
Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M	± .050 (1.3)

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	65.4	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

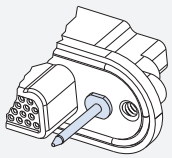
HARDWARE DETAILS



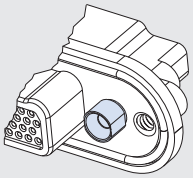
N No Hardware
Tapped holes.
Size A-G, J, K:6-32 UNC-2B
H, L: 8-32 UNC-2B
M: 10-32 UNF-2B
N: 12-24 UNC-2B
150 (3.8) min. depth



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



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.

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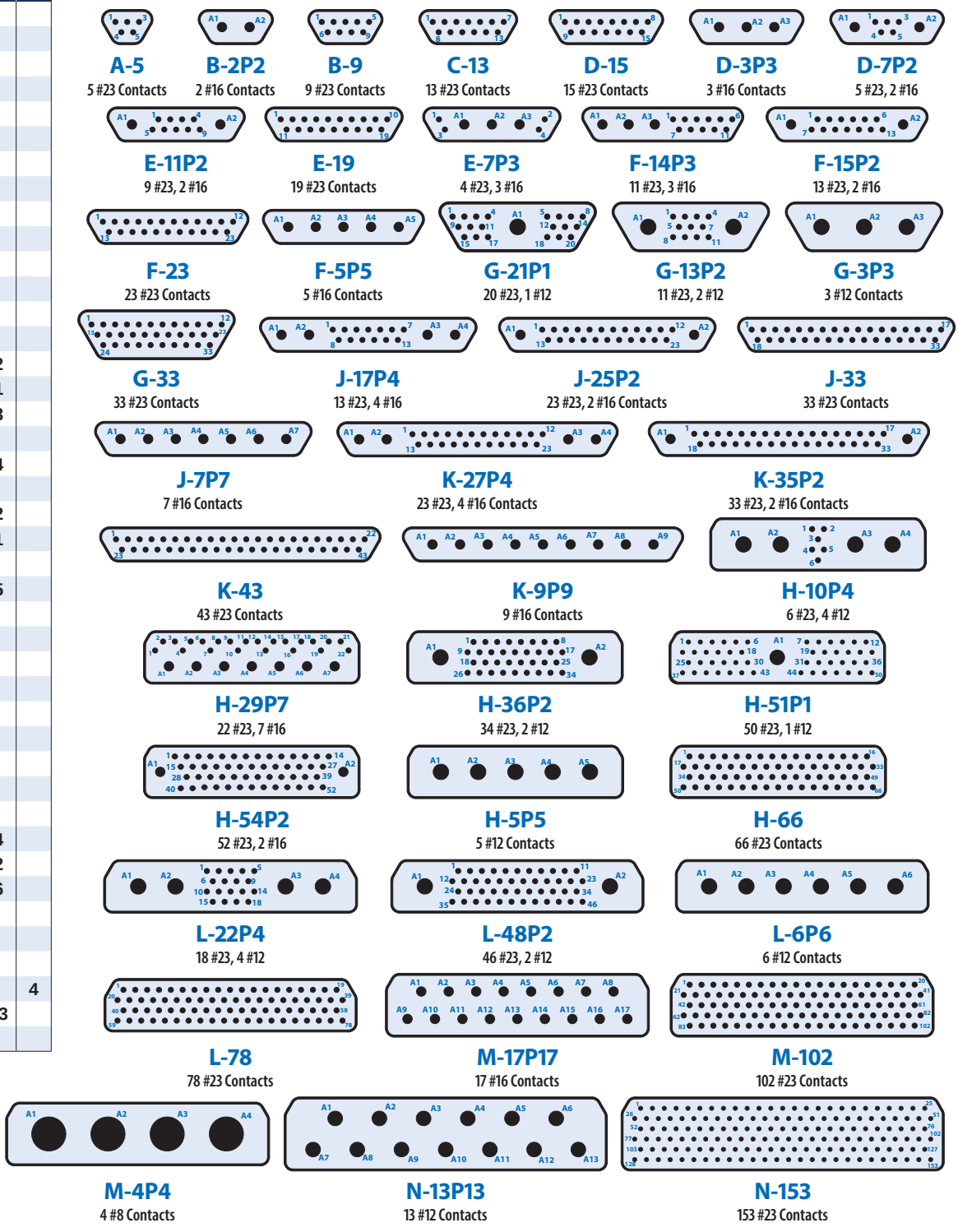
Insert Arrangements

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.



A-5
5 #23 Contacts

B-2P2
2 #16 Contacts

B-9
9 #23 Contacts

C-13
13 #23 Contacts

D-15
15 #23 Contacts

D-3P3
3 #16 Contacts

D-7P2
5 #23, 2 #16

E-11P2
9 #23, 2 #16

E-19
19 #23 Contacts

E-7P3
4 #23, 3 #16

F-14P3
11 #23, 3 #16

F-15P2
13 #23, 2 #16

F-23
23 #23 Contacts

F-5P5
5 #16 Contacts

G-21P1
20 #23, 1 #12

G-13P2
11 #23, 2 #12

G-3P3
3 #12 Contacts

G-33
33 #23 Contacts

J-17P4
13 #23, 4 #16

J-25P2
23 #23, 2 #16 Contacts

J-33
33 #23 Contacts

J-7P7
7 #16 Contacts

K-27P4
23 #23, 4 #16 Contacts

K-35P2
33 #23, 2 #16 Contacts

K-43
43 #23 Contacts

K-9P9
9 #16 Contacts

H-10P4
6 #23, 4 #12

H-29P7
22 #23, 7 #16

H-36P2
34 #23, 2 #12

H-51P1
50 #23, 1 #12

H-54P2
52 #23, 2 #16

H-5P5
5 #12 Contacts

H-66
66 #23 Contacts

L-22P4
18 #23, 4 #12

L-48P2
46 #23, 2 #12

L-6P6
6 #12 Contacts

L-78
78 #23 Contacts

M-17P17
17 #16 Contacts

M-102
102 #23 Contacts

M-4P4
4 #8 Contacts

N-13P13
13 #12 Contacts

N-153
153 #23 Contacts

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Series 791 Material and Finish Options

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 791 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

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Specifications

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	See table below
Operating Temperature	-65 to +150 °C
Ingress Protection	IP67
Durability	500 mating cycles

Contact Size	Current (A)
#23	5
#16	13
#12	23
#8	46

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

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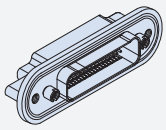
Panel Cutout, 791 Panel Mount Connectors

PANEL CUTOUT FOR SERIES 791 PANEL MOUNT CONNECTORS

This cutout is compatible with:

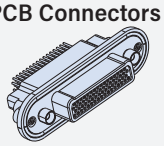
Panel Mount Connectors

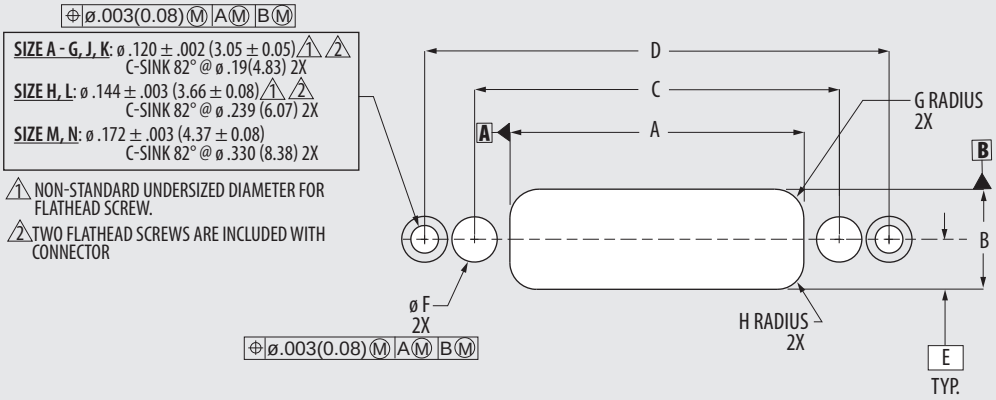
791-019
791-020



Panel Mount PCB Connectors

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





Shell Size	A ± .002 (0.05)		B ± .002 (0.05)		C Basic		D Basic		E Typ		ø F ± .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

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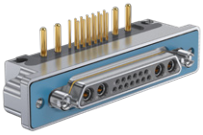
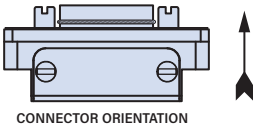
PCB Footprints for Series 790 and 791

90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS

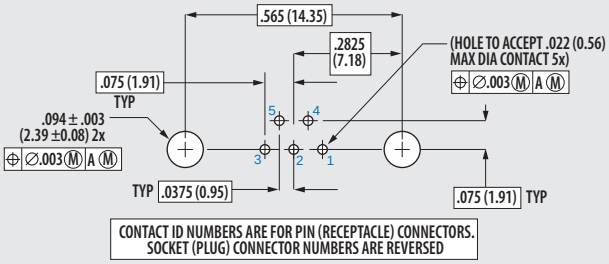


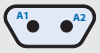
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032



A-5

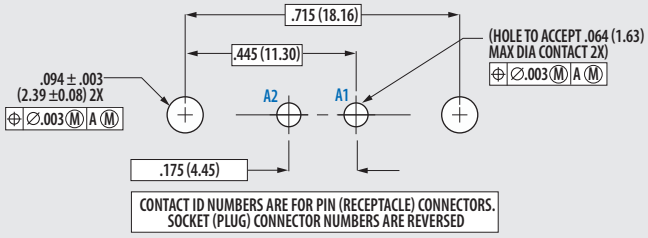
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





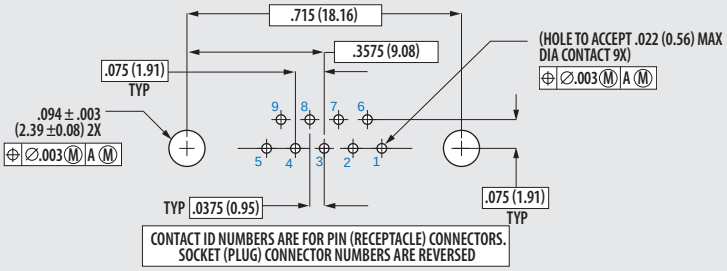
B-2P2

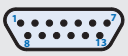
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



B-9

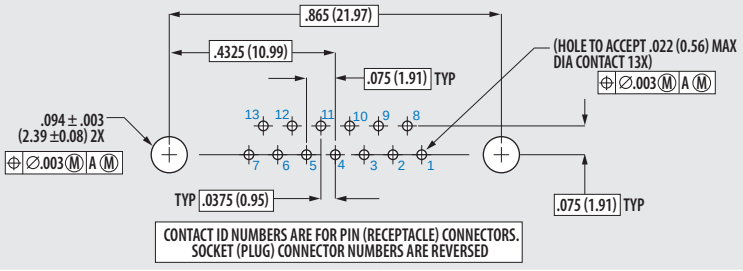
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

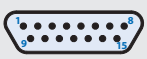




C-13

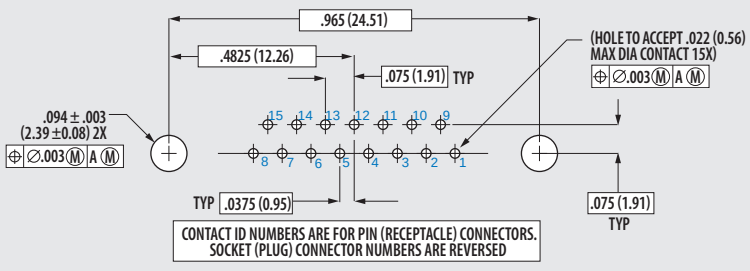
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





D-15

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



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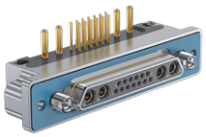
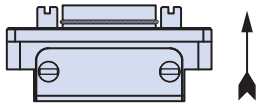
PCB Footprints for Series 790 and 791

90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS

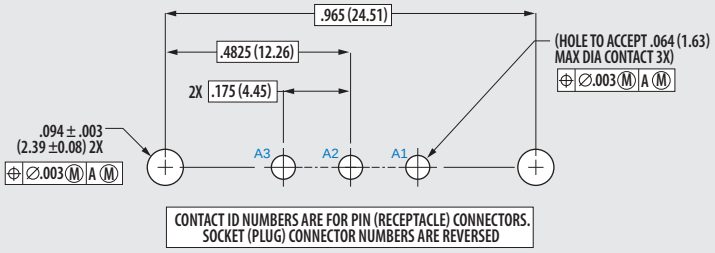


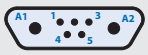
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032



D-3P3

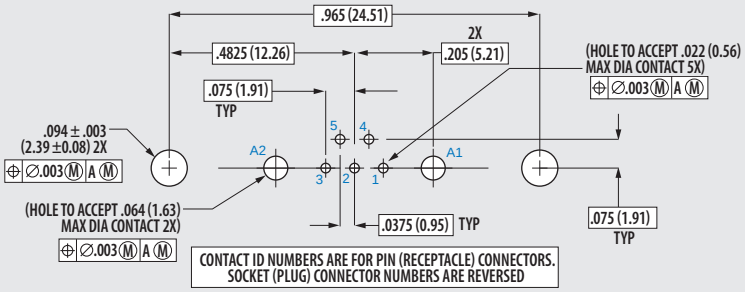
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

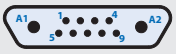




D-7P2

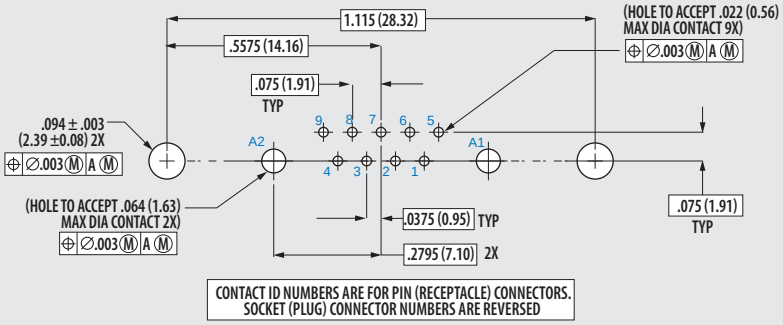
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

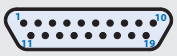




E-11P2

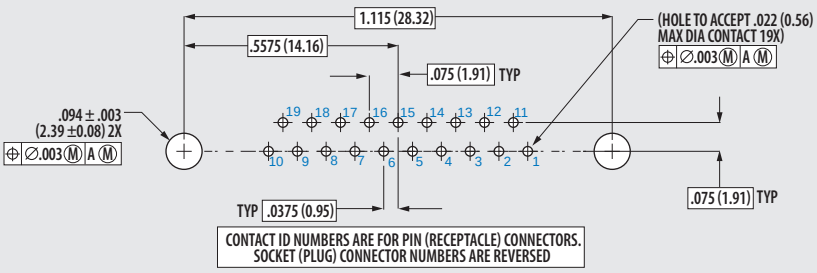
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





E-19

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



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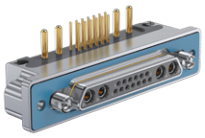
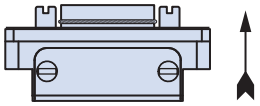
PCB Footprints for Series 790 and 791

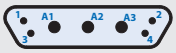
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



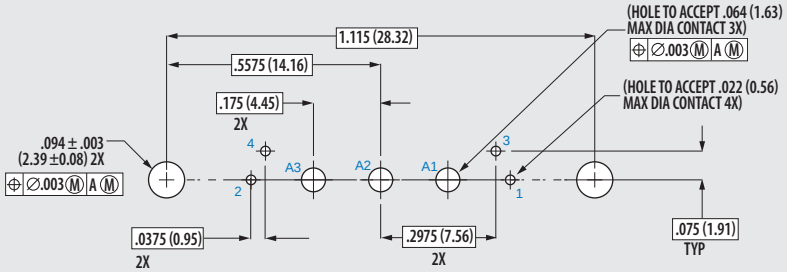
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

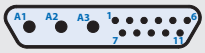




E-7P3

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

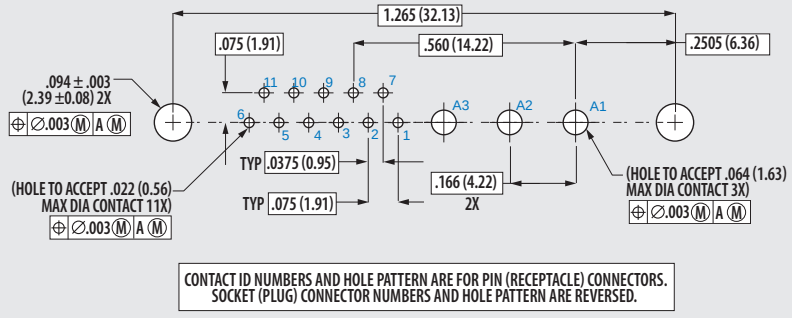


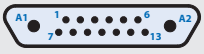


F-14P3

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

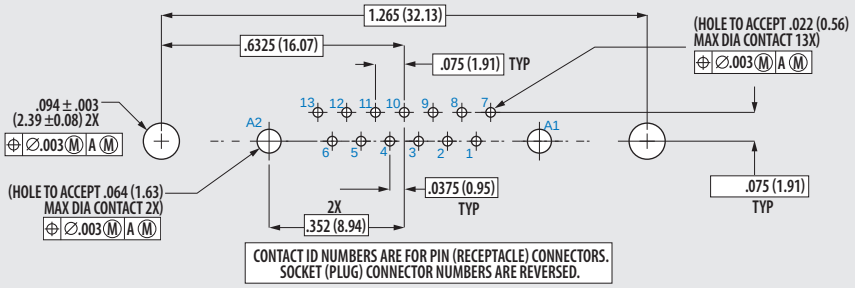
> ⚠ ***Non-symmetrical arrangement***
> Pattern must be reversed for use with plug (socket) connector.

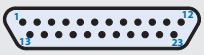




F-15P2

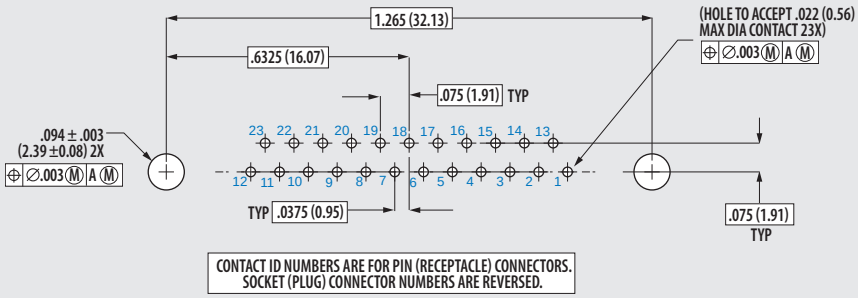
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





F-23

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



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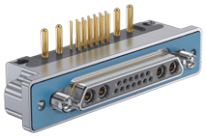
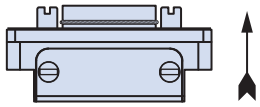
PCB Footprints for Series 790 and 791

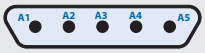
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



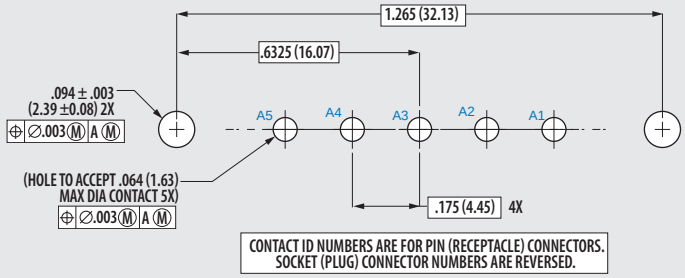
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

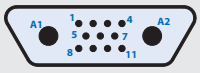




F-5P5

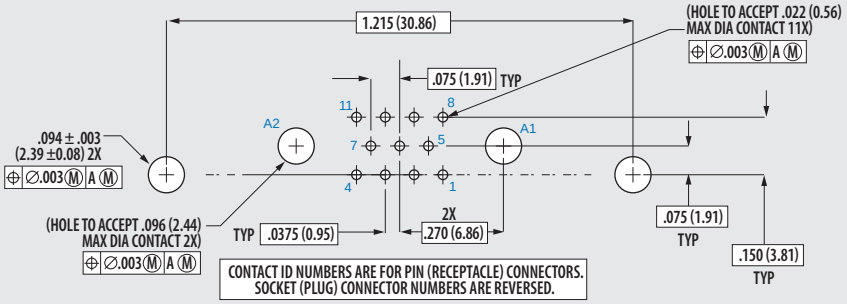
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

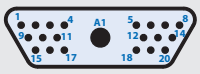




G-13P2

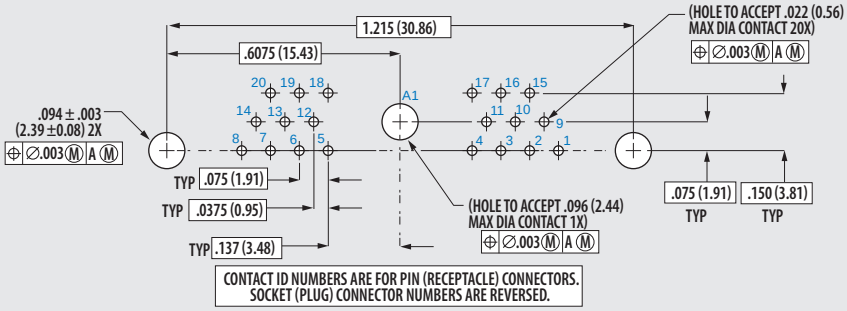
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

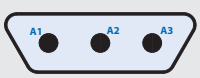




G-21P1

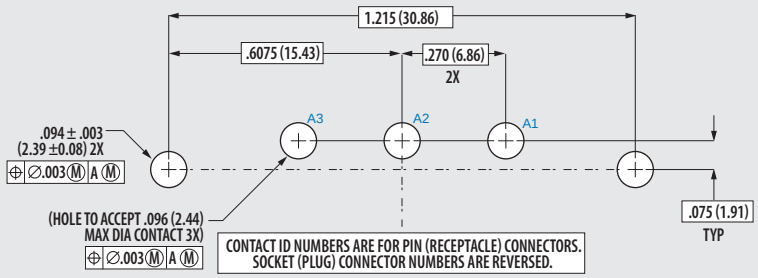
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





G-3P3

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



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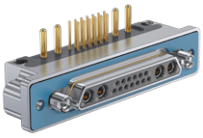
PCB Footprints for Series 790 and 791

90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



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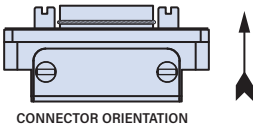
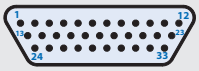
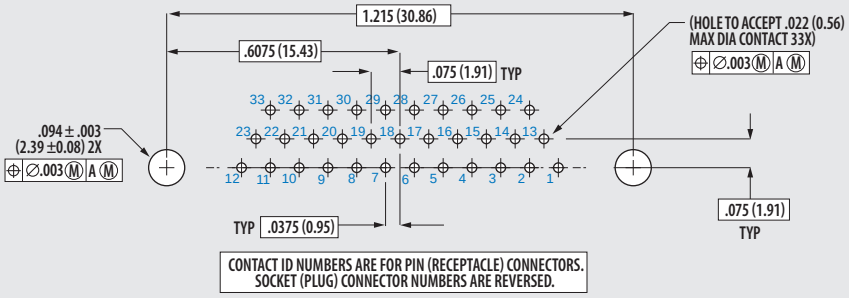
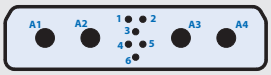




G-33

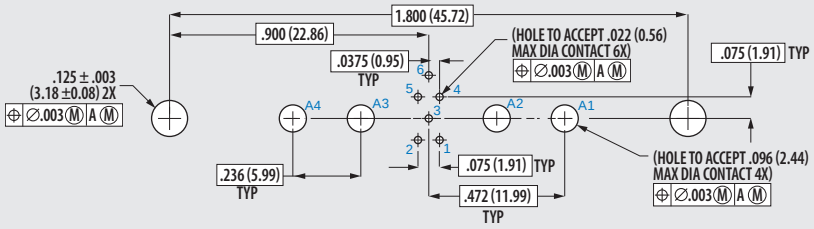
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

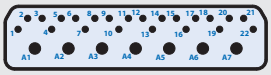




H-10P4

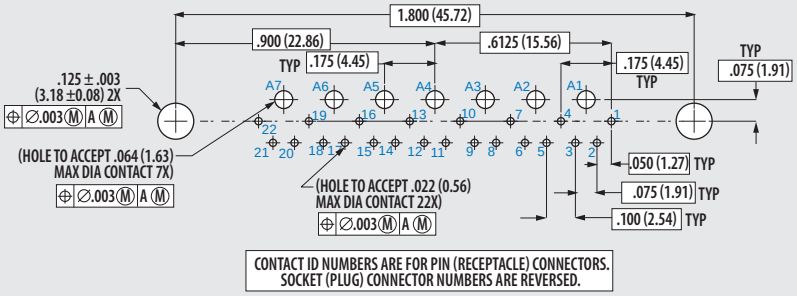
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

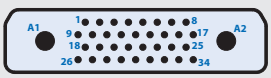




H-29P7

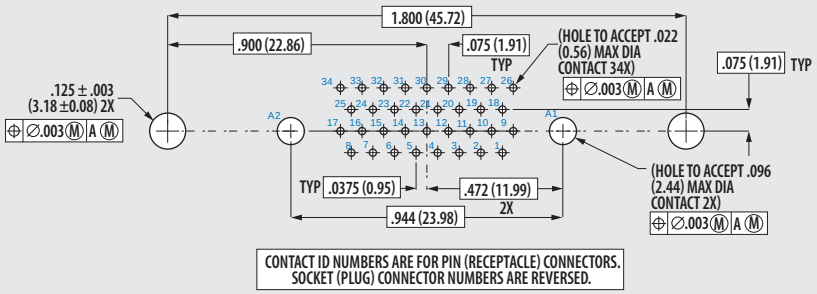
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





H-36P2

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



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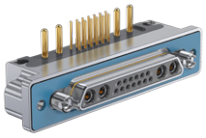
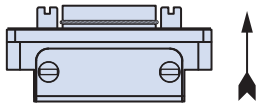
PCB Footprints for Series 790 and 791

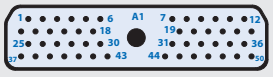
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



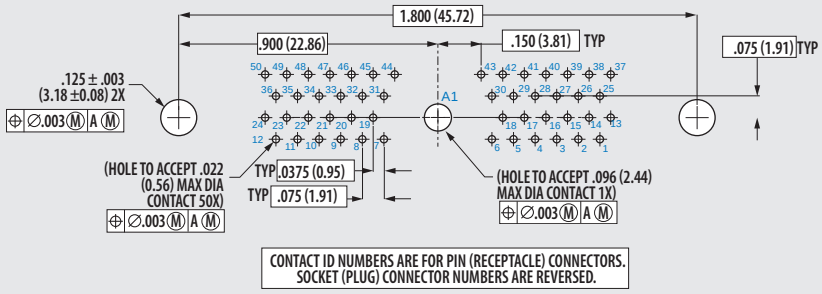
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

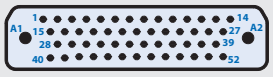




H-51P1

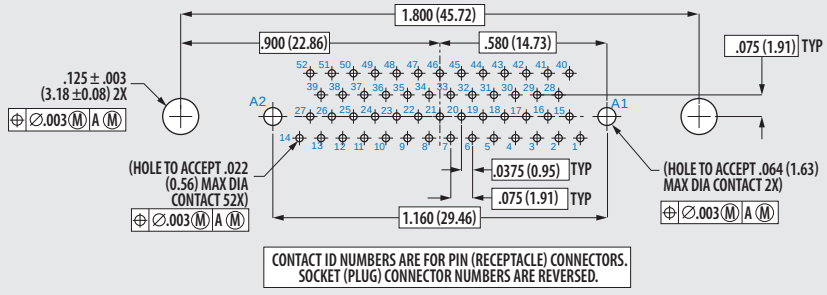
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

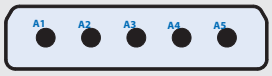




H-54P2

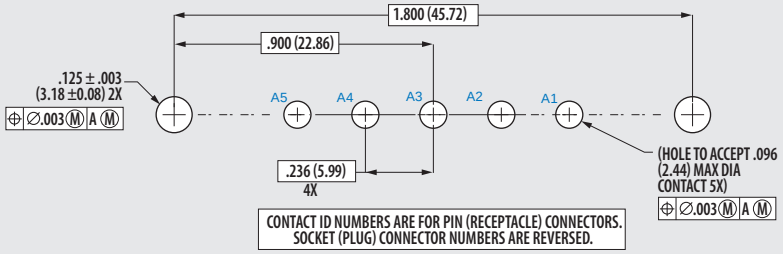
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

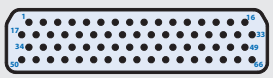




H-5P5

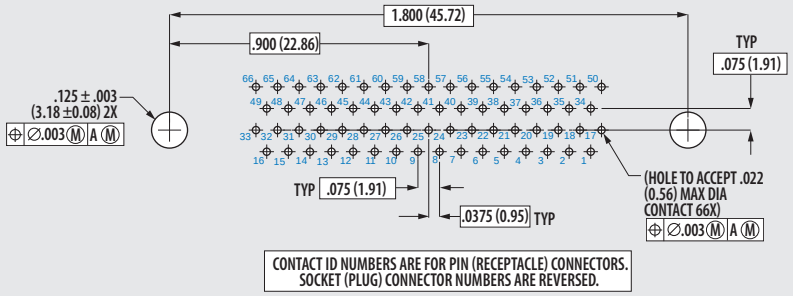
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





H-66

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



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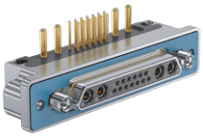
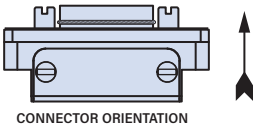
PCB Footprints for Series 790 and 791

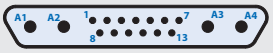
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



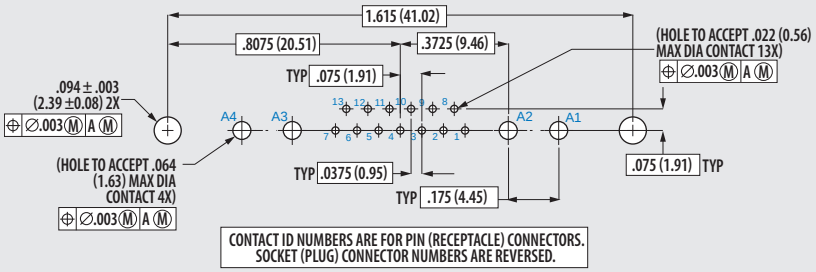
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

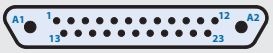




J-17P4

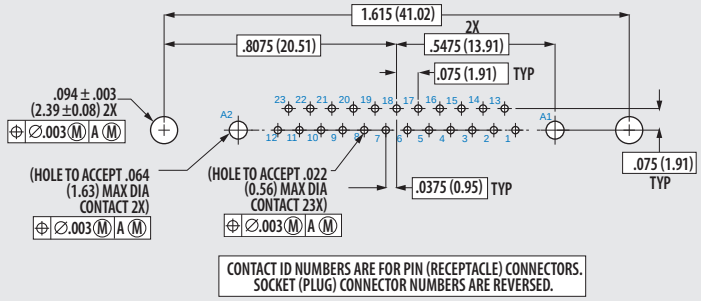
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

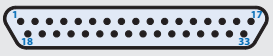




J-25P2

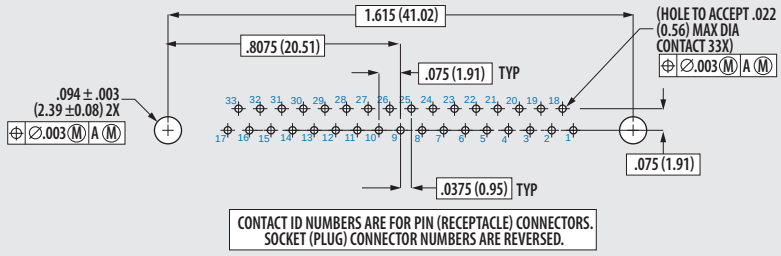
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

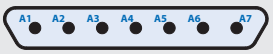




J-33

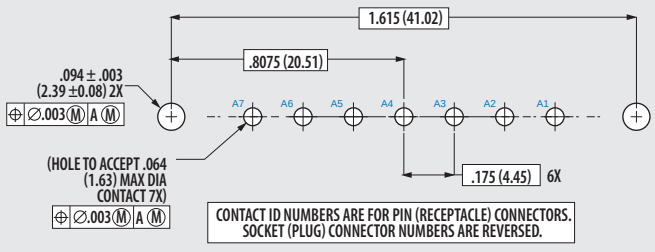
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





J-7P7

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



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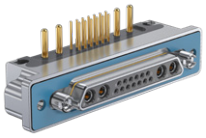
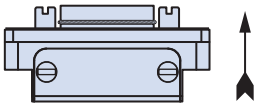
PCB Footprints for Series 790 and 791

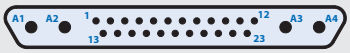
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



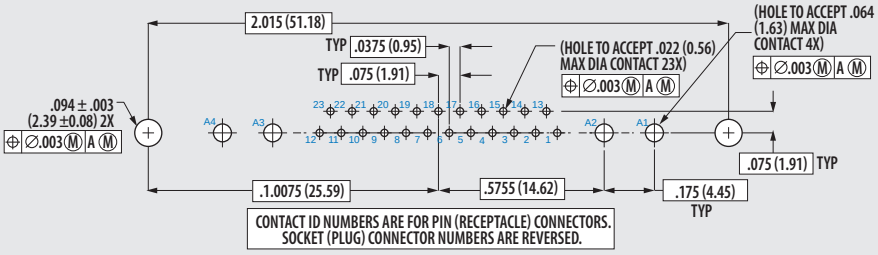
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

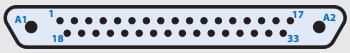




K-27P4

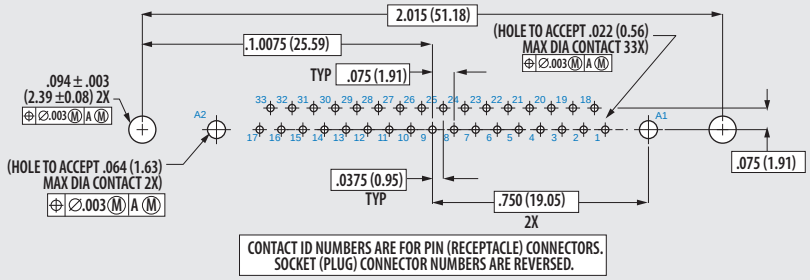
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

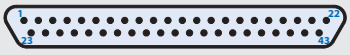




K-35P2

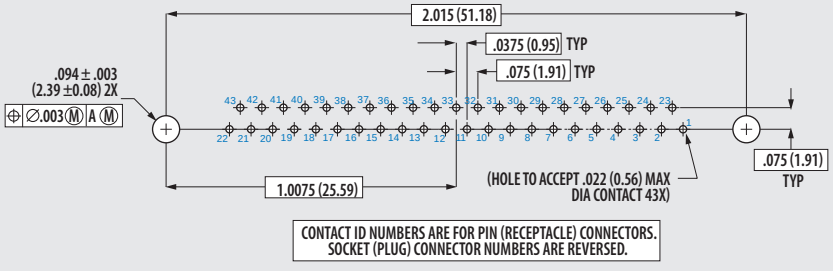
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





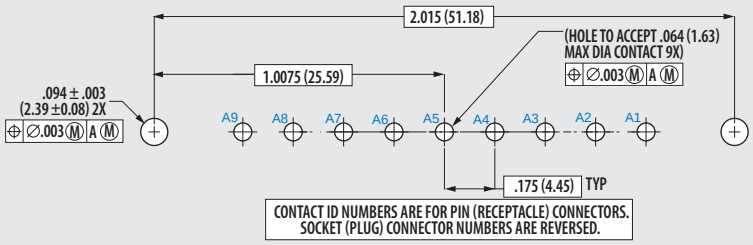
K-43

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.



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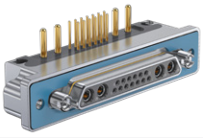
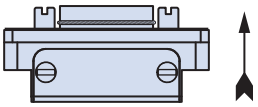
PCB Footprints for Series 790 and 791

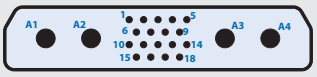
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



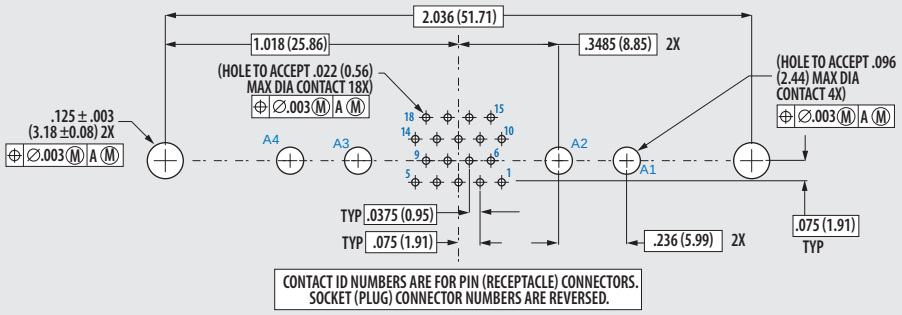
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

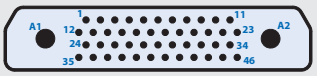




L-22P4

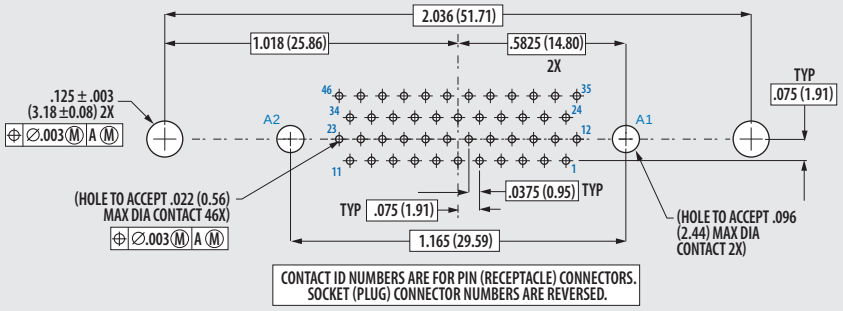
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

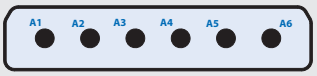




L-48P2

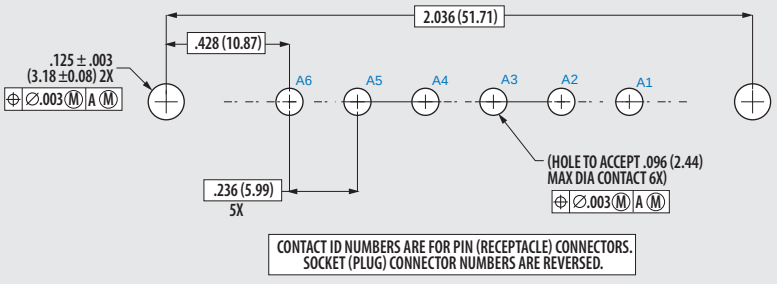
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

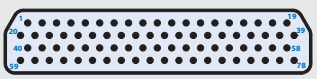




L-6P6

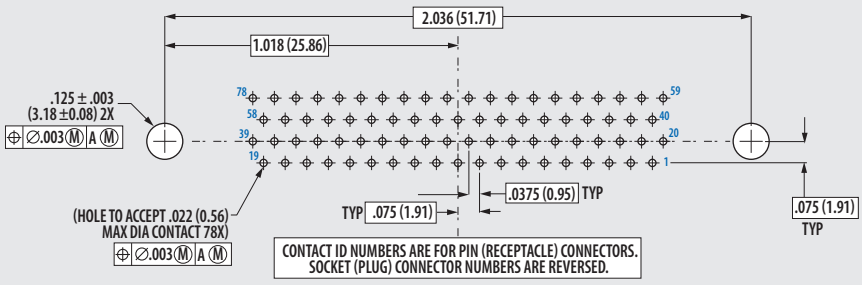
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





L-78

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



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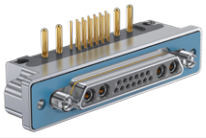
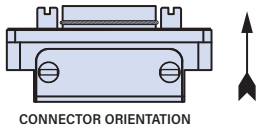
PCB Footprints for Series 790 and 791

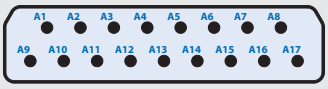
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



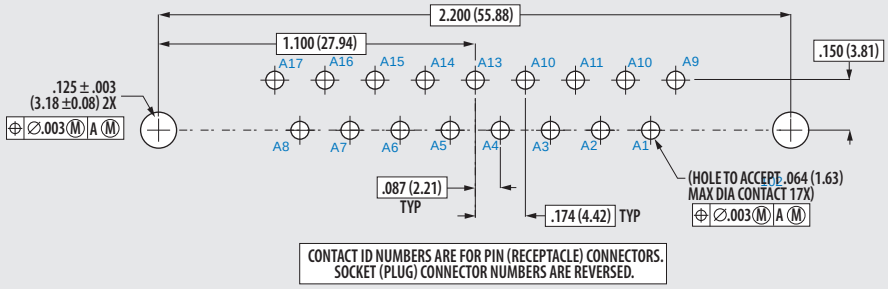
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

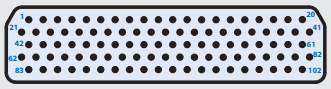




M-17P17

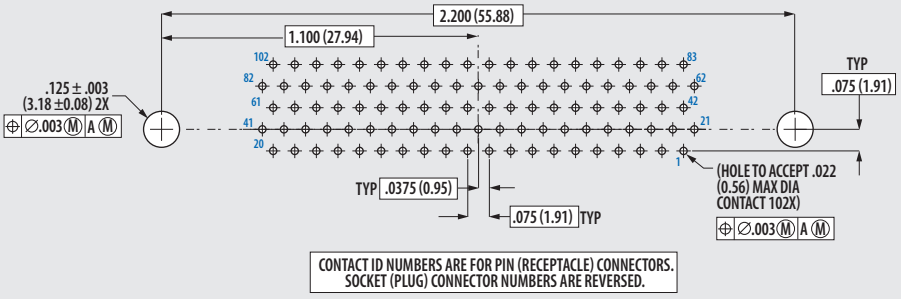
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

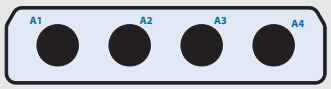




M-102

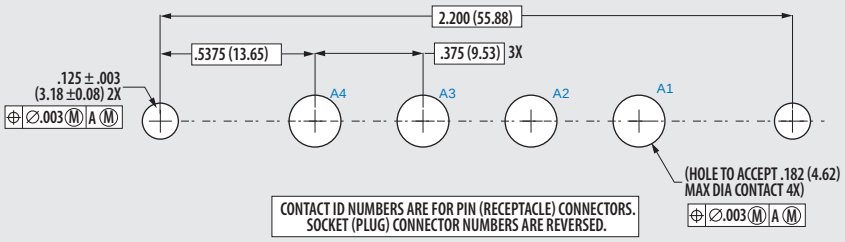
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

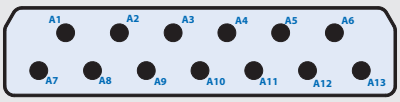




M-4P4

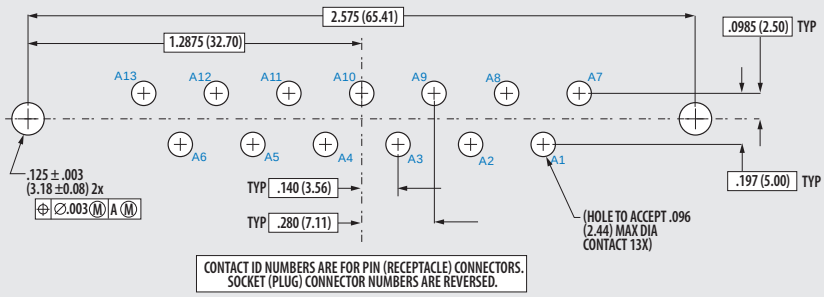
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





N-13P13

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



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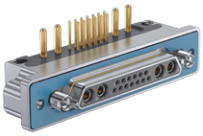
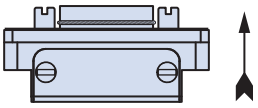
PCB Footprints for Series 790 and 791

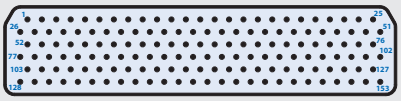
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



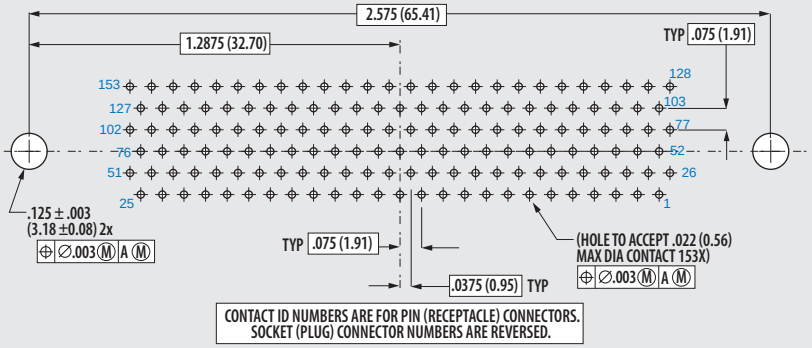
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032





N-153

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



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Series 791 Polarization Keying Option

OPTIONAL POLARIZATION KEYS

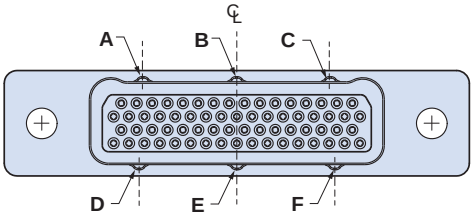
To prevent mis-mating of identical shell size and insert arrangement connectors

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.

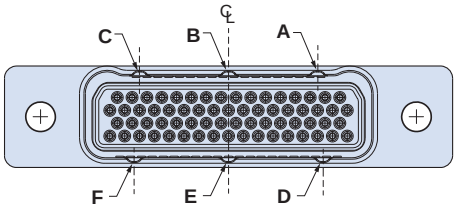
Note: keyed receptacles will mate with unkeyed plugs. Additional polarization keying positions are available, consult the factory for designators and key locations.

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**

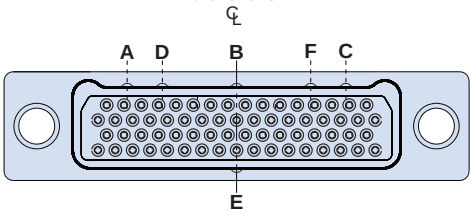
MOD-555 KEY LOCATIONS PLUG CONNECTOR MATING FACE
For Shell Sizes A-M



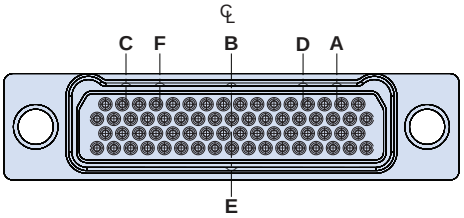
MOD-555 KEY LOCATIONS RECEPTACLE CONNECTOR MATING FACE
For Shell Sizes A-M



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



MOD-555 KEY LOCATIONS RECEPTACLE CONNECTOR MATING FACE
For Shell 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

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