790-042

PCB Plug, 90° Tails

- 90° PCB termination
- Socket contacts

790-042 plug has right angle socket contacts for thru-hole printed circuit board termination. Contacts are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. EMI shroud improves shielding. Optional EMI spring. Available in forty 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 microminiature PCB connector with 90° M39029-type PCB contacts
- Epoxy sealed
- EMI shroud
- Environmental

INSERT ARRANGEMENTS

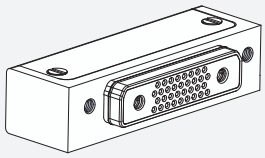
Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	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

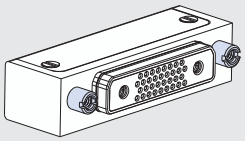
Sample Part Number	790-042S	K-27P4	M	E	P	A

Basic Part Number	790-042S	PCB Plug, Socket Contacts, 90° Tails
Shell Size-Insert Arr.	See "*Insert Arrangements*" Table	
Shell Finish	M	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
EMI Spring	E	EMI Spring *Shell finishes M and MT only*
	N	No EMI Spring
Jackposts	N	No Jackposts
	P	Jackposts
PC Tail Length	A	.125 inch (3.2mm)
	B	.250 inch (6.4mm)
	C	.375 inch (9.5mm)

JACKPOSTS



N
No Jackposts
Connector has blind threaded holes



P
Jackposts

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

- **Socket Contacts:** Copper alloy, gold over nickel finish. Stainless steel hood.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **EMI spring:** Stainless steel, gold plated
- **EMI shroud:** Aluminum
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel

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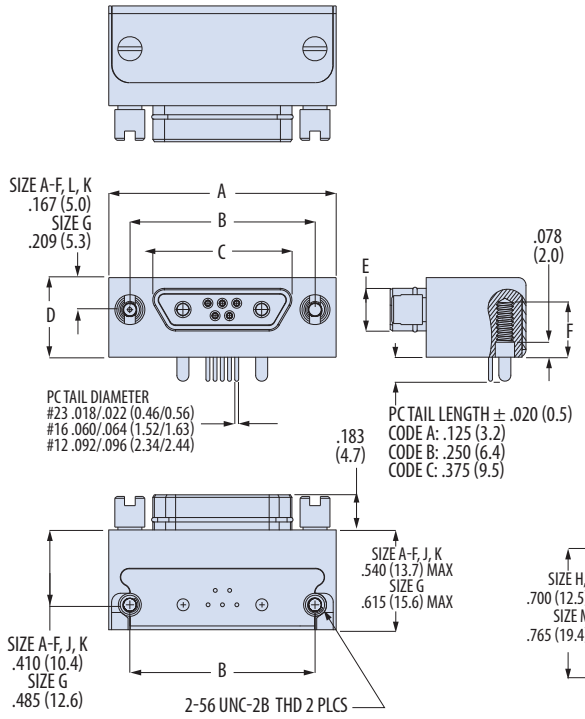
Dimensions in Inches (millimeters) are subject to change without notice.

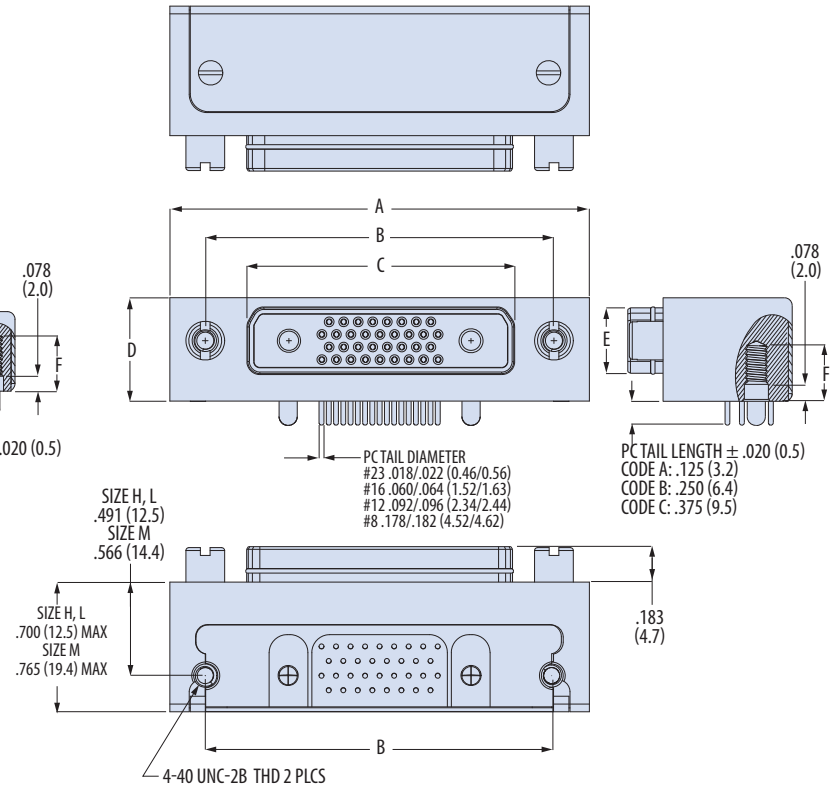
790-042

PCB Plug, 90° Tails

- 90° PCB termination
- Socket contacts



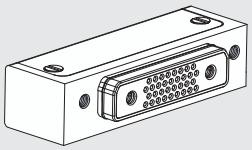
SHELL SIZE A-G, J, K



SHELL SIZE H, L, M

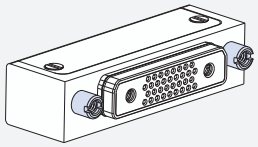
Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E Max		F Min	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.805	20.4	.565	14.4	.335	8.5	.430	10.9	.233	5.9	.228	5.8
B	.955	24.3	.715	18.2	.485	12.3	.430	10.9	.233	5.9	.228	5.8
C	1.105	28.1	.865	22.0	.635	16.1	.430	10.9	.233	5.9	.228	5.8
D	1.205	30.6	.965	24.5	.735	18.7	.430	10.9	.233	5.9	.228	5.8
E	1.355	34.4	1.115	28.3	.885	22.5	.430	10.9	.233	5.9	.228	5.8
F	1.505	38.2	1.265	32.1	1.035	26.3	.430	10.9	.233	5.9	.228	5.8
G	1.455	37.0	1.215	30.9	1.010	25.7	.530	13.5	.320	8.1	.228	5.8
H	2.185	55.5	1.800	45.7	1.385	35.2	.550	14.0	.349	8.9	.238	6.0
J	1.855	47.1	1.615	41.0	1.390	35.3	.430	10.9	.233	5.9	.228	5.8
K	2.255	57.3	2.015	51.2	1.795	45.6	.430	10.9	.233	5.9	.228	5.8
L	2.430	61.7	2.036	51.7	1.623	41.2	.550	14.0	.349	8.9	.238	6.0
M	2.575	65.4	2.200	55.9	1.675	42.5	.635	16.1	.407	10.3	.250	6.4

JACKPOST OPTIONS



N

No Jackposts
Connector has blind threaded holes, .150 (3.8) minimum depth.
Size A–G, J, K = 4-40 UNC-2B
Size H, L = 6-32 UNC-2B
Size M = 8-32 UNC-2B



P

Jackposts
Non-removable.
Size A–G, J, K = 2-56 UNC-2B
Size H, L = 4-40 UNC-2B
Size M = 6-32 UNC-2B

Application Note

PCB Footprints

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

Straight tails: pages **G-1 – G-9**
90° tails: pages **G-10 – G-20**

Application Note

Panel Mounting

For panel mounting, specify connector without jackposts. Use rear panel mount jackpost **799-119**. See page **F-20** for jackpost ordering information and panel cutout dimensions.

Insert Arrangements

SERIES 790 HIGH-DENSITY

INSERT ARRANGEMENTS

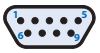
Insert Arr.	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	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			

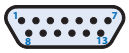
⚠ Cavity Numbers

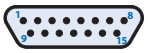
Cavity numbers shown are for mating face of receptacle (pin) connector. Plug (socket) numbers are reversed.

A-5
5 #23 Contacts

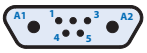
B-2P2
2 #16 Contacts

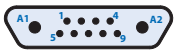

B-9
9 #23 Contacts

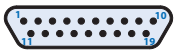

C-13
13 #23 Contacts

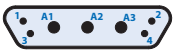

D-15
15 #23 Contacts

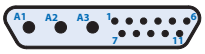
D-3P3
3 #16 Contacts

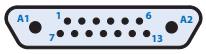

D-7P2
5 #23, 2 #16


E-11P2
9 #23, 2 #16


E-19
19 #23 Contacts


E-7P3
4 #23, 3 #16


F-14P3
11 #23, 3 #16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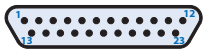
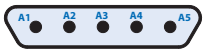
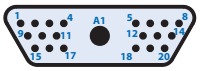
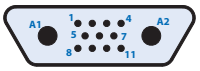

F-23
23 #23 Contacts


F-5P5
5 #16 Contacts


G-21P1
20 #23, 1 #12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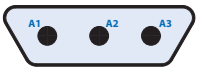
11 #23, 2 #12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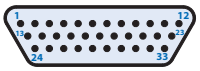
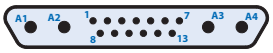

G-33
33 #23 Contacts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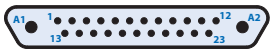
13 #23, 4 #16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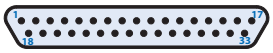
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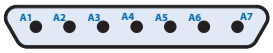
33 #23 Contacts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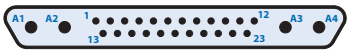
7 #16 Contacts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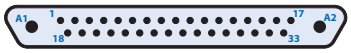
23 #23, 4 #16 Contacts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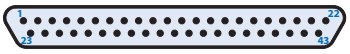
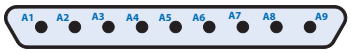
33 #23, 2 #16 Contacts


K-43
43 #23 Contacts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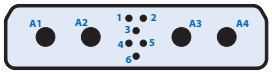
9 #16 Contacts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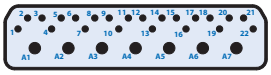
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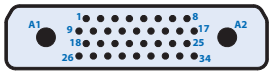
22 #23, 7 #16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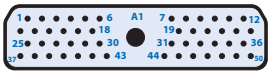
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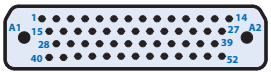
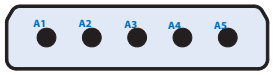
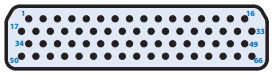
50 #23, 1 #12


H-54P2
52 #23, 2 #16


H-5P5
5 #12 Contacts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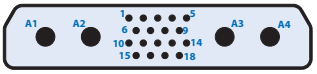
66 #23 Contacts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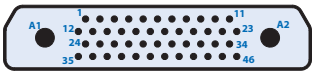
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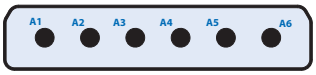
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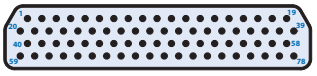
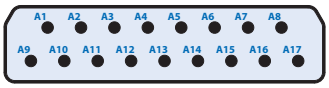

L-78
78 #23 Contacts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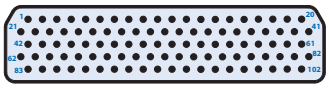
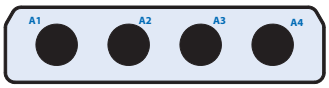

M-102
102 #23 Contacts


M-4P4
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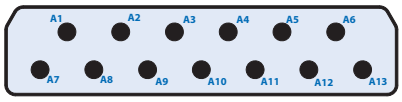
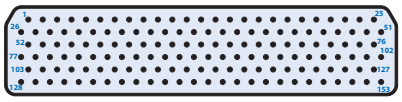

N-13P13
13 #12 Contacts


N-153
153 #23 Contacts

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Dimensions in Inches (millimeters) are subject to change without notice.

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
Gasket, panel	Cho-Seal 1287 Ag/Al filled fluorosilicone
EMI spring	Stainless steel, gold 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

Series 790 Material and Finish Options

The Series 790 Micro-Crimp® 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.

SERIES 790 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.

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.

ALTERNATE SHELL MATERIAL AND FINISH CODES

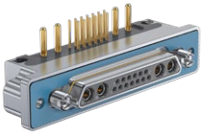
Code	Shell Material	Shell Finish	Finish Specification	Salt Spray Hrs.	Electrical Conductivity	RoHS[1]
C	Alum	Anodize, Black	MIL-PRF-8625	48	Non-Conductive	✓
E[2]	Alum	Chem Film, Gold	MIL-DTL-5541	168	Conductive	
J	Alum	Cadmium, Yellow	AMS-QQ-P-416	500	Conductive	
Z1	SST	Passivate	AMS2700	500	Conductive	✓
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

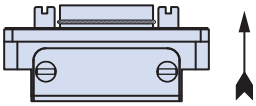
PCB Footprints for Series 790 and 791

90° PCB Footprints for Series 790 and 791 Connectors

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

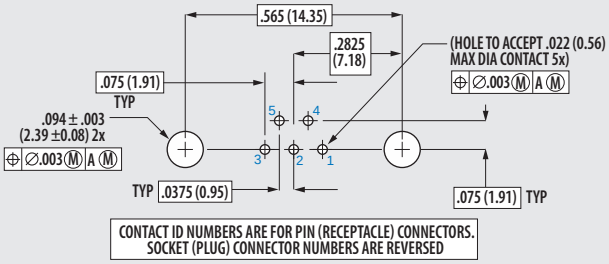


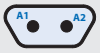
PCB hole patterns are shown for the *component mounting side* of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032



A-5

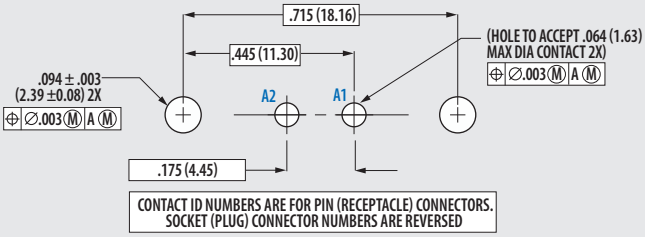
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





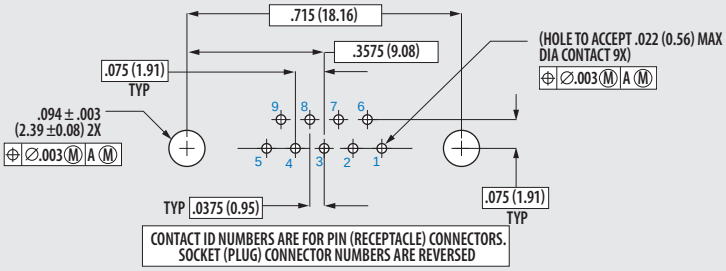
B-2P2

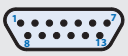
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



B-9

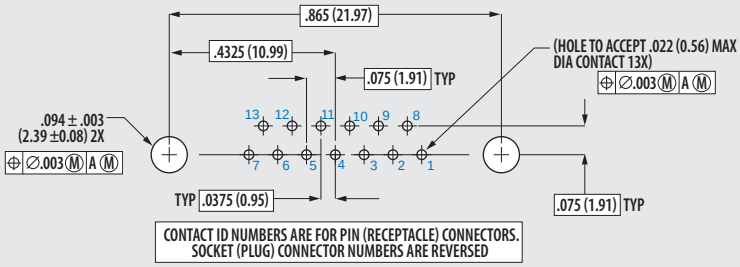
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

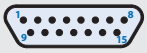




C-13

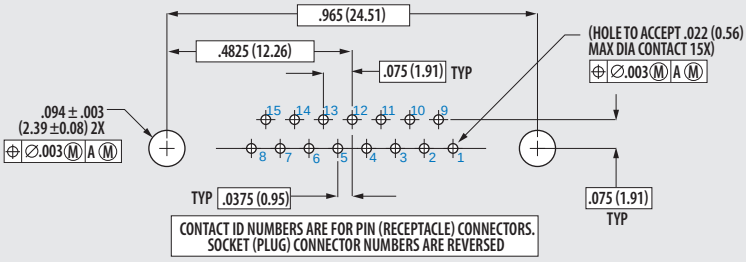
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





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.
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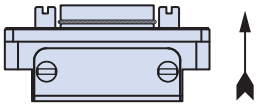
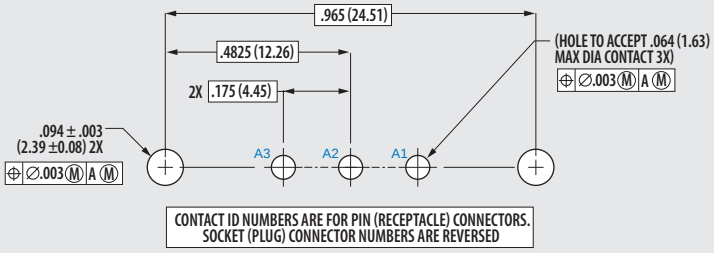
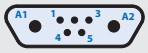


D-3P3

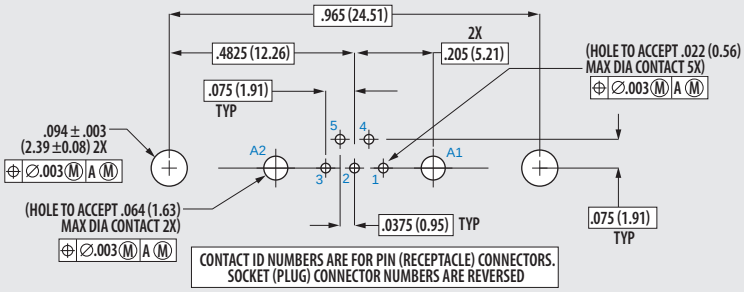
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

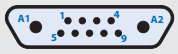




D-7P2

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





E-11P2

Contact numbers are mating face of pin connector.
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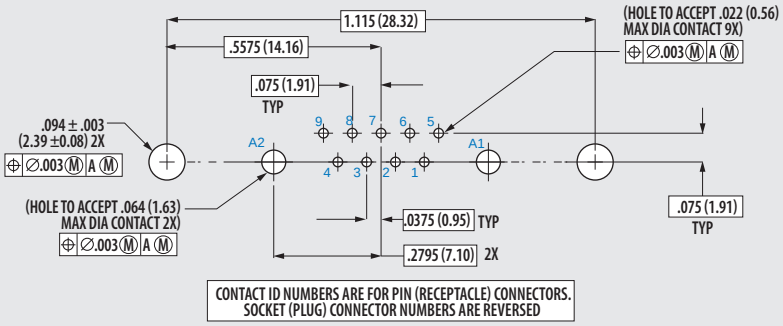
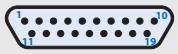
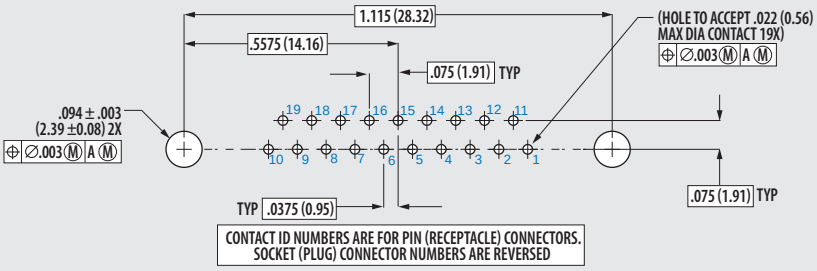




E-19

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



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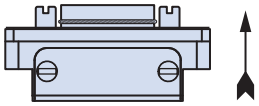
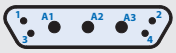
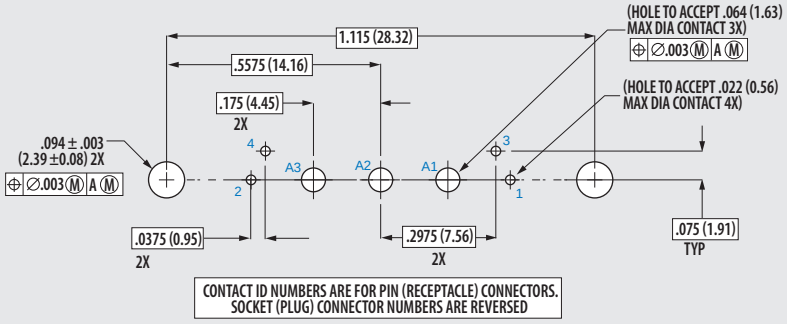


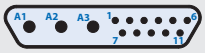
CONNECTOR ORIENTATION



E-7P3

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

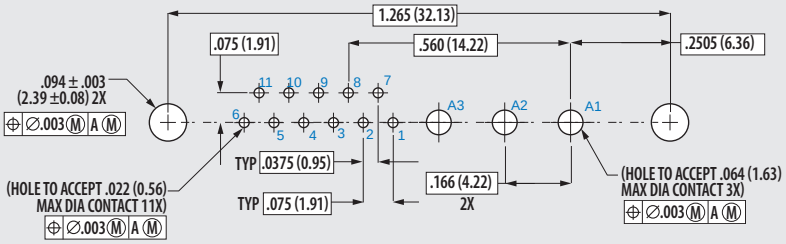


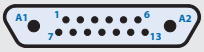


F-14P3

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

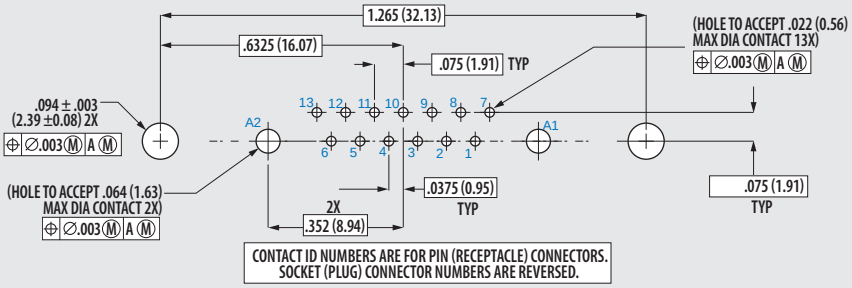
Non-symmetrical arrangement
Pattern must be reversed for use with plug (socket) connector.

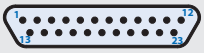




F-15P2

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





F-23

Contact numbers are mating face of pin connector.
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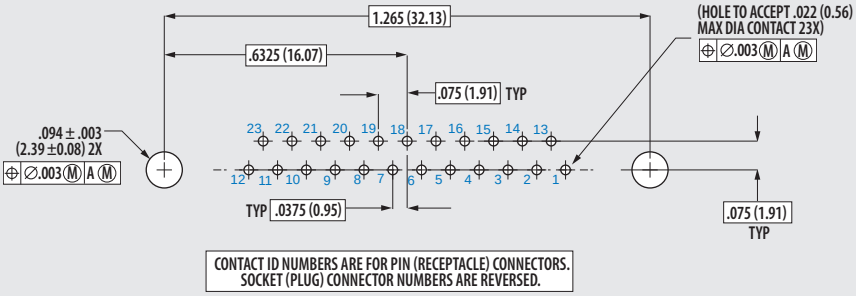

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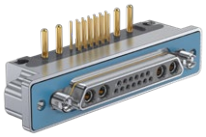
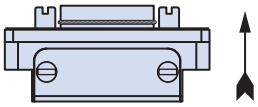
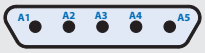


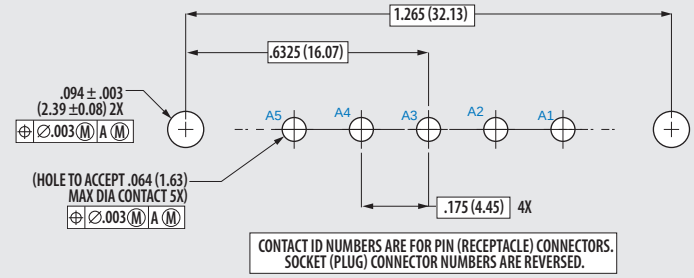
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

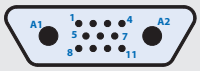




F-5P5

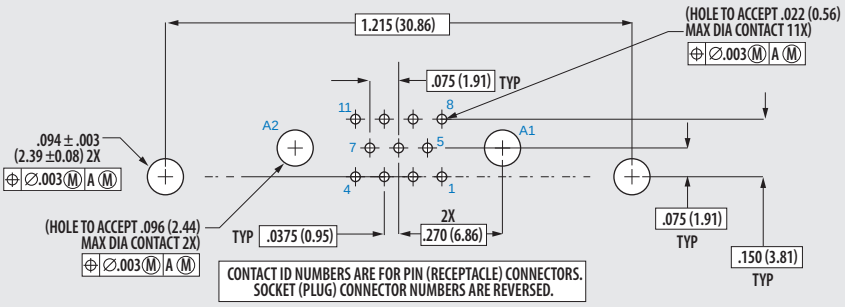
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

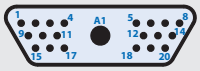




G-13P2

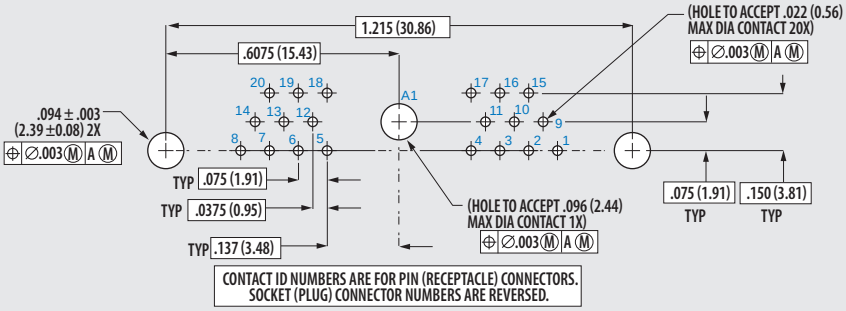
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

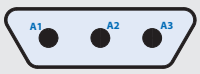




G-21P1

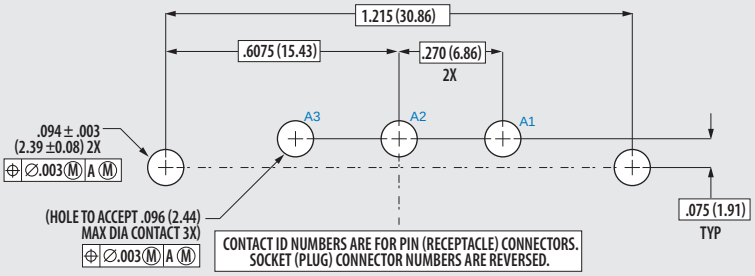
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





G-3P3

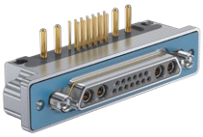
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



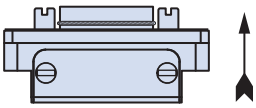
PCB Footprints for Series 790 and 791

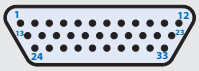
90° PCB Footprints for Series 790 and 791 Connectors

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



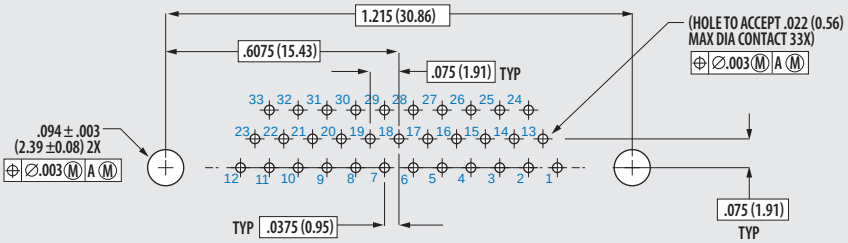
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

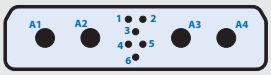




G-33

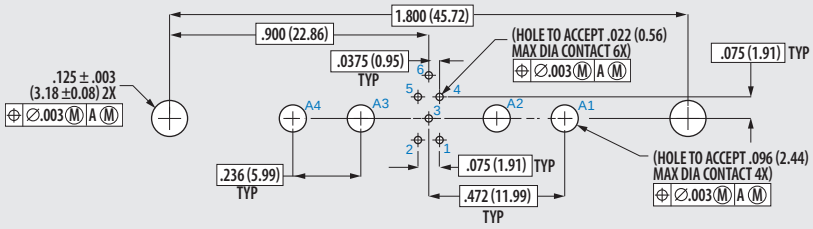
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

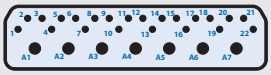




H-10P4

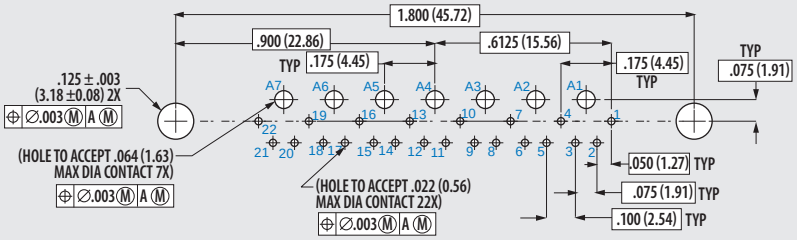
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

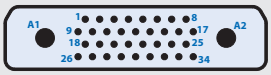




H-29P7

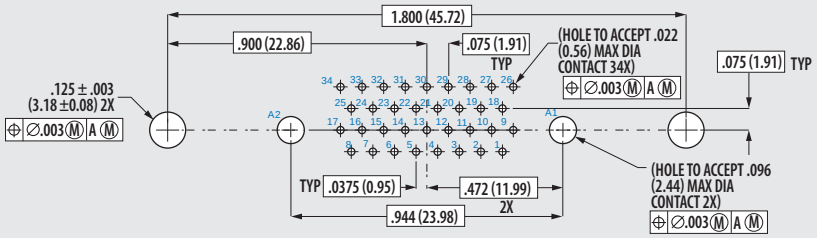
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





H-36P2

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



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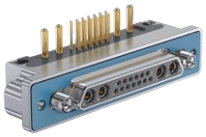
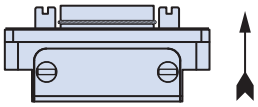
PCB Footprints for Series 790 and 791

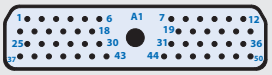
90° PCB Footprints for Series 790 and 791 Connectors

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



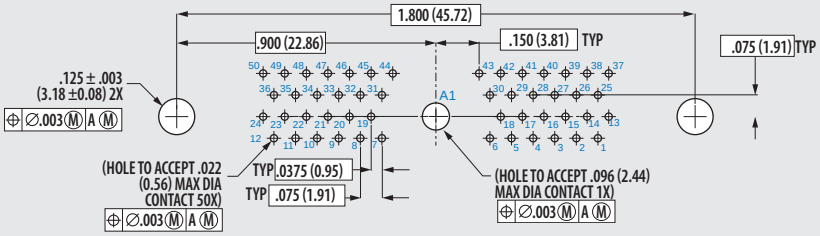
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

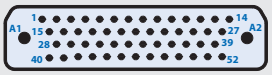




H-51P1

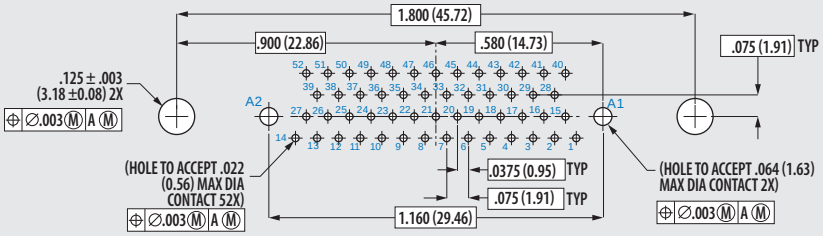
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

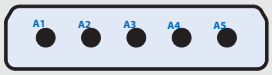




H-54P2

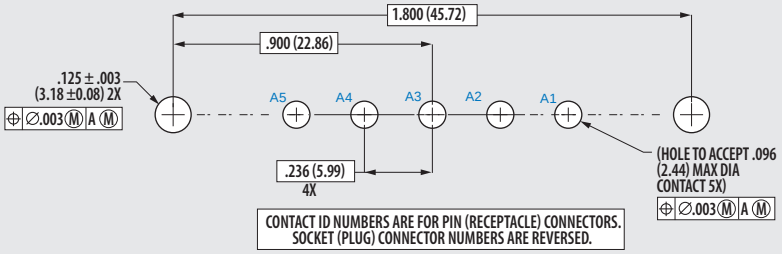
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

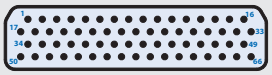




H-5P5

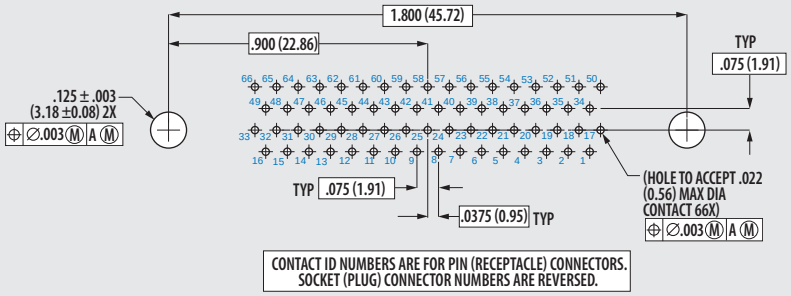
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





H-66

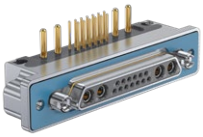
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



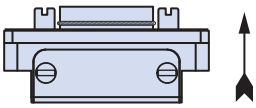
PCB Footprints for Series 790 and 791

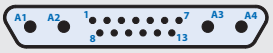
90° PCB Footprints for Series 790 and 791 Connectors

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



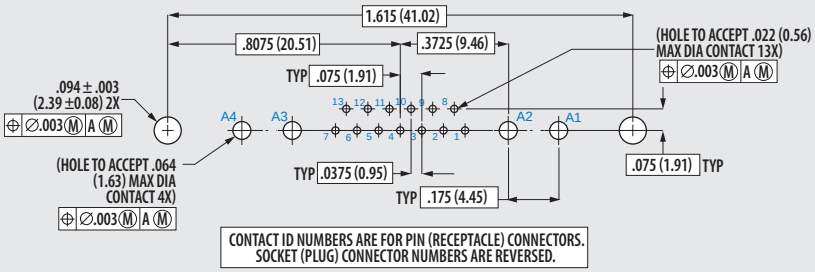
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

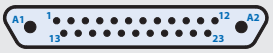




J-17P4

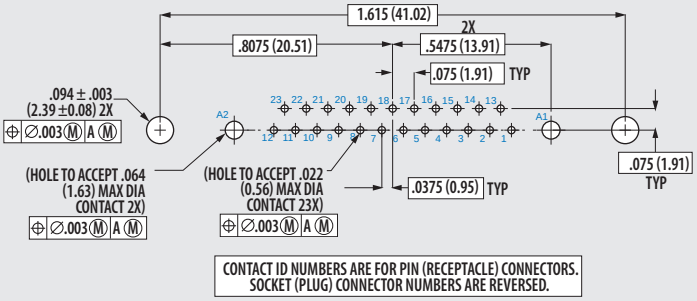
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

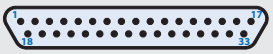




J-25P2

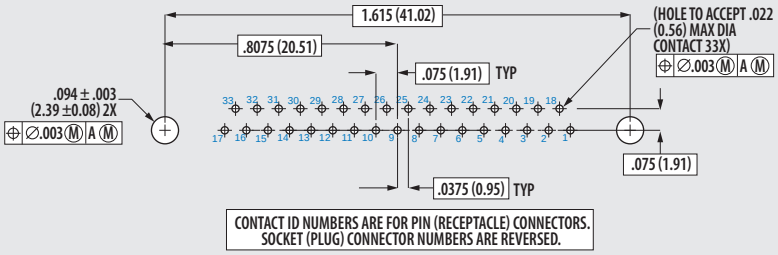
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

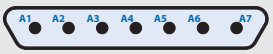




J-33

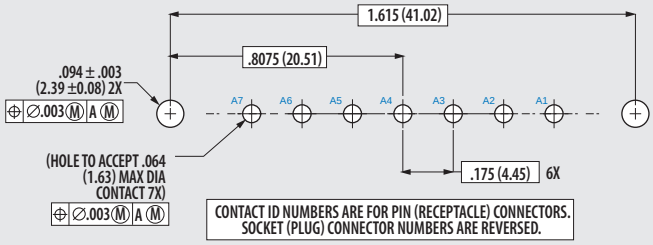
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





J-7P7

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



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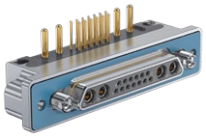
PCB Footprints for Series 790 and 791

90° PCB Footprints for Series 790 and 791 Connectors

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



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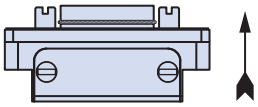
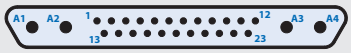
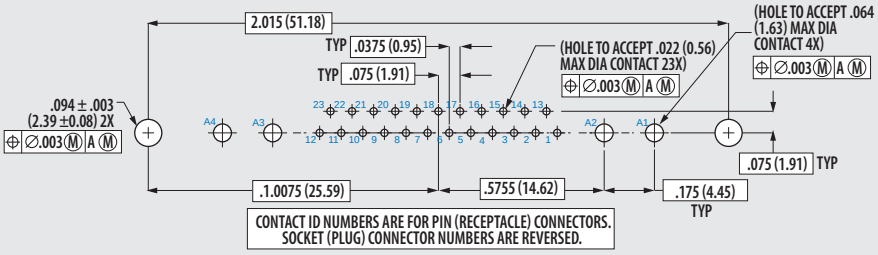
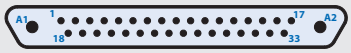




K-27P4

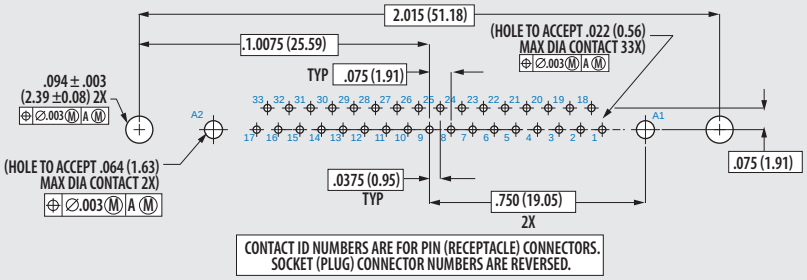
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

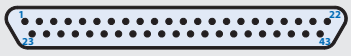




K-35P2

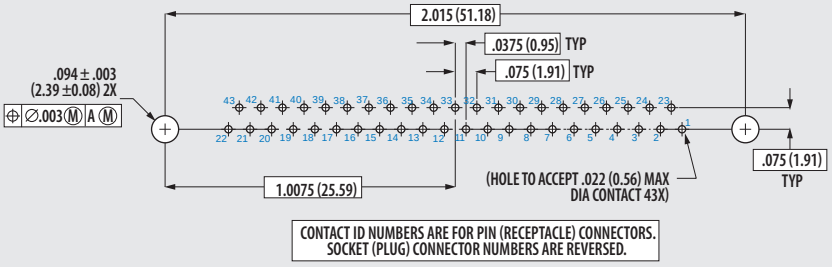
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





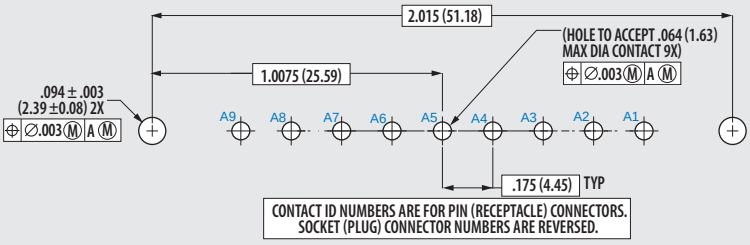
K-43

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



K-9P9

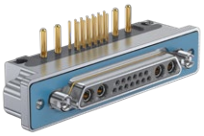
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



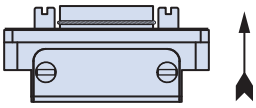
PCB Footprints for Series 790 and 791

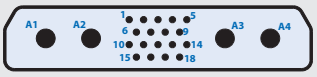
90° PCB Footprints for Series 790 and 791 Connectors

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



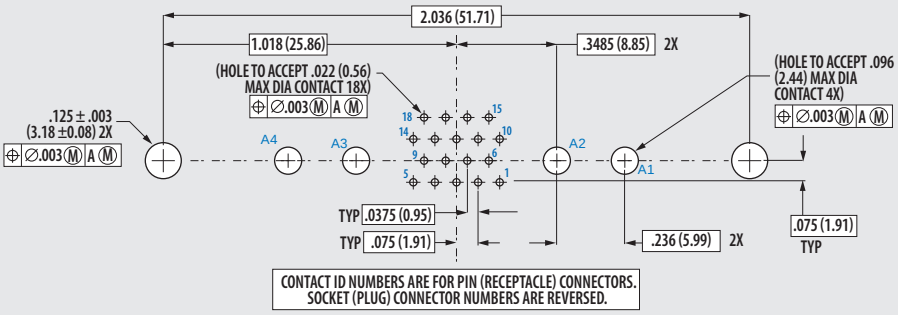
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

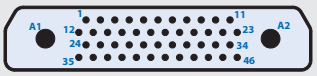




L-22P4

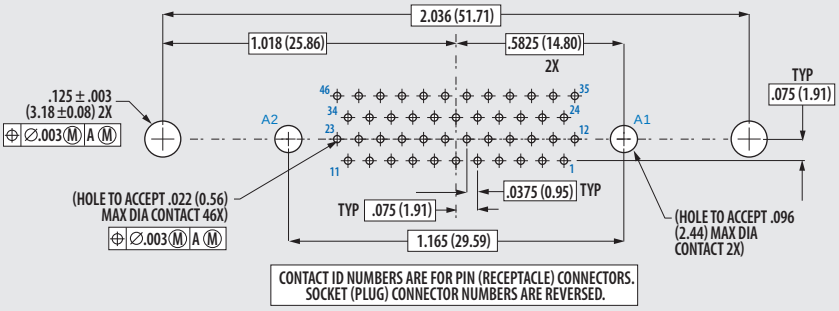
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

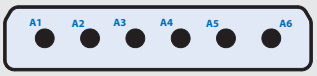




L-48P2

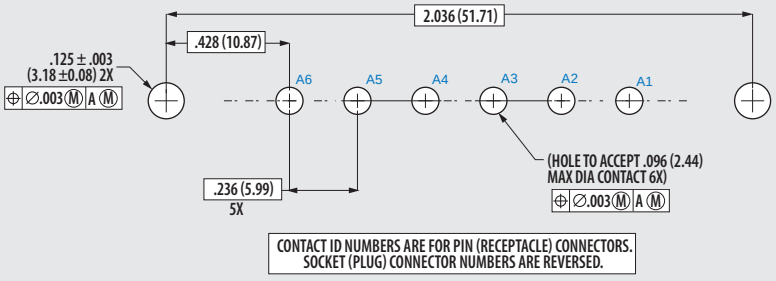
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

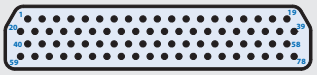




L-6P6

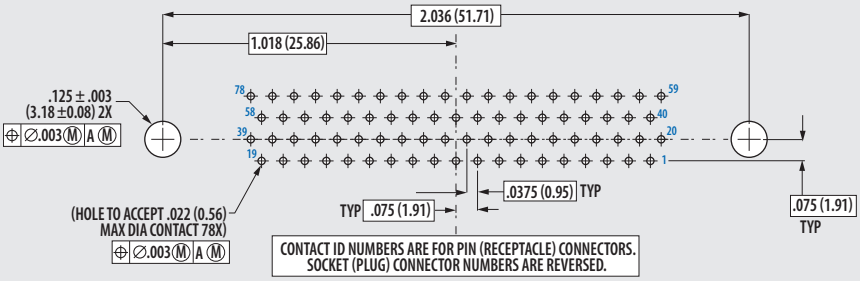
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





L-78

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



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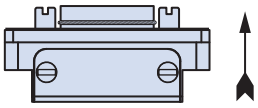
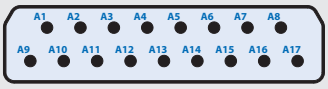
PCB Footprints for Series 790 and 791

90° PCB Footprints for Series 790 and 791 Connectors

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

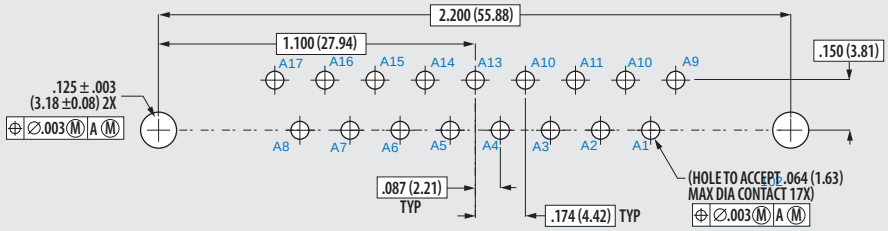
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

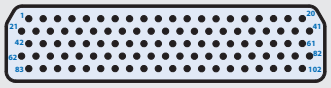




M-17P17

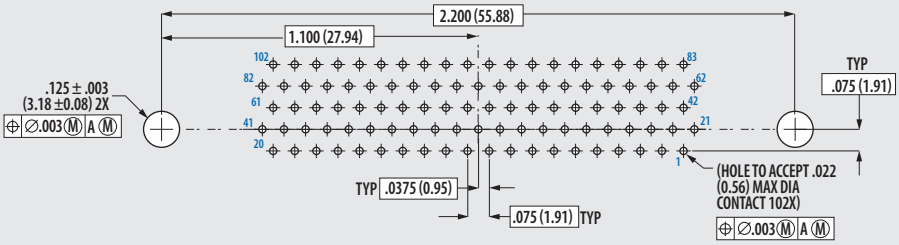
Contact numbers are mating face of pin connector. Socket connector contact numbers are reversed.

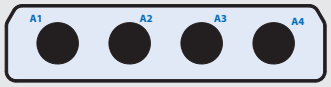




M-102

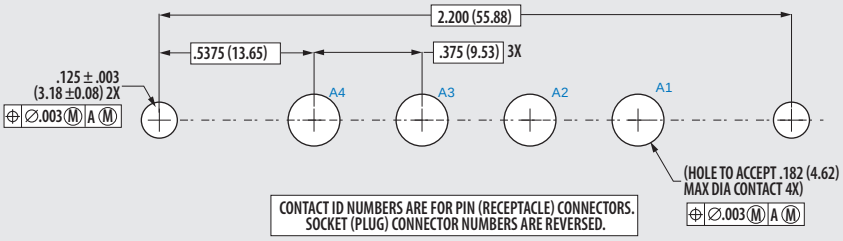
Contact numbers are mating face of pin connector. Socket connector contact numbers are reversed.

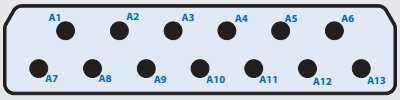




M-4P4

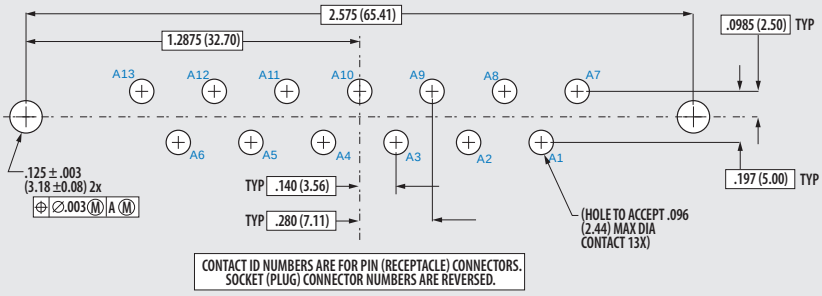
Contact numbers are mating face of pin connector. Socket connector contact numbers are reversed.





N-13P13

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

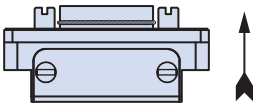


PCB Footprints for Series 790 and 791

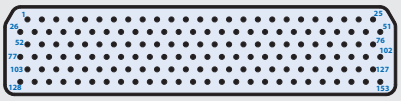
90° PCB Footprints for Series 790 and 791 Connectors

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

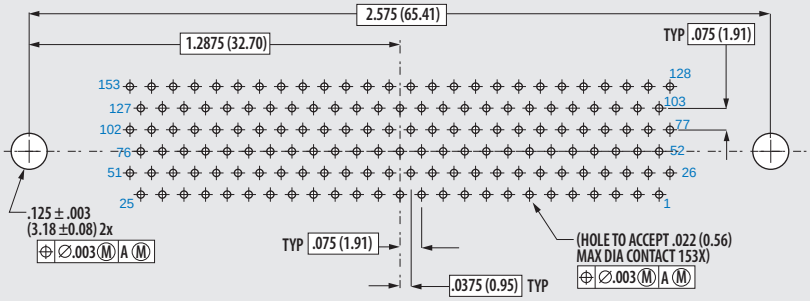


CONNECTOR ORIENTATION



N-153

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



CONTACT ID NUMBERS ARE FOR PIN (RECEPTACLE) CONNECTORS.
SOCKET (PLUG) CONNECTOR NUMBERS ARE REVERSED.

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