

MICRO-CRIMP RECTANGULAR CONNECTORS

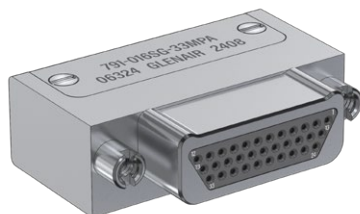
Series 791 Scoop-Proof



791-016

PCB Plug, 90° Tails

- ◆ Right angle PCB termination
- ◆ Socket contacts



791-016 plug has right angle PC tail 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. 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 ultraminiature connector with scoop-proof duo-lobe shell
- Epoxy-sealed right angle terminals with EMI shroud
- 40 insert arrangements with M39029-type contacts
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts			
	#23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

HOW TO ORDER

Sample Part Number		791-016S	L-78	ZR	R1	A	B
Basic Part Number	791-016S	PCB Plug, 90° Tails, Socket Contacts					
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					
Jackpost Option <i>Table 1</i>	N	No Jackposts					
	P	Female Jackposts					
	R1	Rear Panel Mount Jackposts .032 (0.81) Panel Thickness					
	R2	Rear Panel Mount Jackposts .050 (1.27) Panel Thickness					
	R3	Rear Panel Mount Jackposts .062 (1.59) Panel Thickness					
	R4	Rear Panel Mount Jackposts .080 (2.03) Panel Thickness					
	R5	Rear Panel Mount Jackposts .093 (2.36) Panel Thickness					
PC Tail Length	A	.125 inch (3.2 mm)					
	B	.250 inch (6.4 mm)					
	C	.375 inch (9.5 mm)					
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 JACKPOST OPTION

N No Hardware		P Female Jackpost		R1 - R6 Rear Panel Jackpost	
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RATINGS

- Voltage (DWV): size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- Current: #23 5A, #16 13A, #12 23A, #8 46A
- Operating temperature: -65 to +150 °C
- Durability: 500 mating cycles
- Shock: 300 g
- Vibration: 20 g random
- Altitude immersion: 75,000 feet
- Ingress protection: IP67

CONSTRUCTION

- Contacts: Copper alloy, gold over nickel finish
- Shell: Aluminum
- Insulators: High performance thermoplastic
- Encapsulant: Epoxy
- Hardware: Stainless steel

MICRO-CRIMP RECTANGULAR CONNECTORS

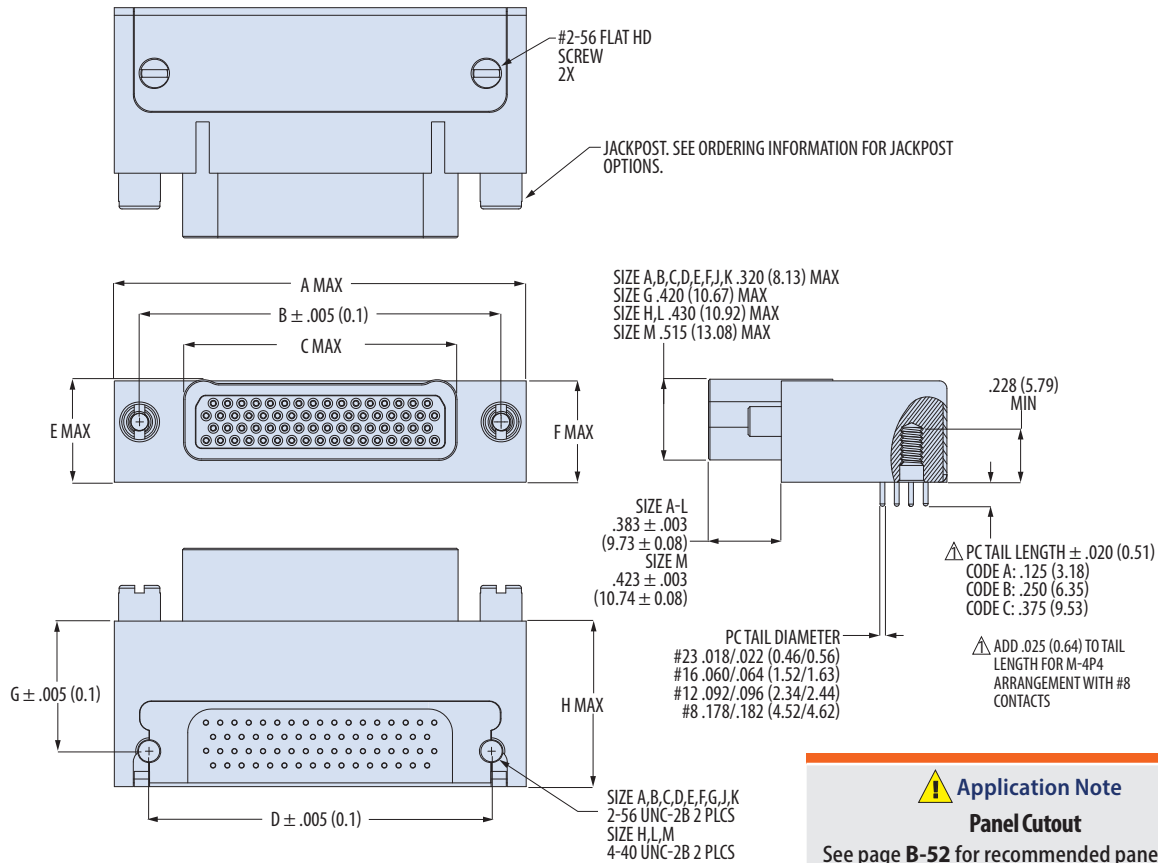
Series 791 Scoop-Proof

SERIES™
791
Scoop-Proof

791-016

PCB Plug, 90° Tails

- ◆ Right angle PCB termination
- ◆ Socket contacts



Application Note

Panel Cutout

See page B-52 for recommended panel cutout dimensions for connectors.

Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E Max		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	.995	25.3	.750	19.1	.415	10.5	.565	14.4	.430	10.9	.430	10.9	.610	15.5	.725	18.4
B	1.145	29.1	.900	22.9	.565	14.4	.715	18.2	.430	10.9	.430	10.9	.610	15.5	.725	18.4
C	1.295	32.9	1.050	26.7	.715	18.2	.865	22.0	.430	10.9	.430	10.9	.610	15.5	.725	18.4
D	1.370	34.8	1.125	28.6	.790	20.1	.965	24.5	.430	10.9	.430	10.9	.610	15.5	.725	18.4
E	1.520	38.6	1.275	32.4	.940	23.9	1.115	28.3	.430	10.9	.430	10.9	.610	15.5	.725	18.4
F	1.670	42.4	1.425	36.2	1.090	27.7	1.265	32.1	.430	10.9	.430	10.9	.610	15.5	.725	18.4
G	1.630	41.4	1.388	35.3	1.052	26.7	1.215	30.9	.525	13.3	.520	13.2	.682	17.3	.800	20.3
H	2.180	55.4	1.900	48.3	1.442	36.6	1.800	45.7	.540	13.7	.540	13.7	.691	17.6	.880	22.4
J	2.045	51.9	1.800	45.7	1.465	37.2	1.615	41.0	.430	10.9	.430	10.9	.610	15.5	.725	18.4
K	2.420	61.5	2.175	55.2	1.840	46.7	2.015	51.2	.430	10.9	.430	10.9	.610	15.5	.725	18.4
L	2.416	61.4	2.136	54.3	1.678	42.6	2.036	51.7	.540	13.7	.540	13.7	.691	17.6	.880	22.4
M	2.580	65.5	2.200	55.9	1.745	44.3	2.200	55.9	.628	16.0	.600	15.2	.798	20.3	.995	25.3

Application Note

PCB Footprints

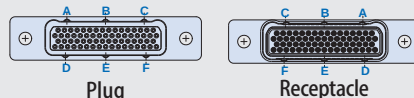
See Section **G** for PC board layouts.

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

Application Note

Polarization Key Positions

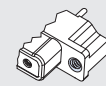
See Mod Code 555 pg. B-8 for details



JACKPOST DETAILS



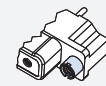
No Jackpost



Connector supplied with threaded holes, .150 (3.8) minimum depth. Shell sizes A-G, J, K have 6-32 UNC-2B thread, sizes H and L have 8-32 UNC-2B thread. Size M has 10-32 UNF-2B thread.



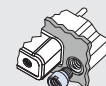
Female Jackpost



Non-removable female jackpost. Shell sizes A-G, J, K have 4-40 UNC-2B thread, sizes H and L have 6-32 UNC-2B thread. Size M has 8-32 UNC-2B thread. 300 series stainless steel, passivated.

R1 - R6

Rear Panel Jackposts



For rear panel mounting of connector onto .032 - .125 inch (0.81 - 3.18) thick panels. Install with threadlocking compound. Shell sizes A-G, J, K have 4-40 UNC-2B thread, sizes H and L have 6-32 UNC-2B thread. Size M has 8-32 UNC-2B thread. 300 series stainless steel, passivated. Supplied loosely assembled.

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof

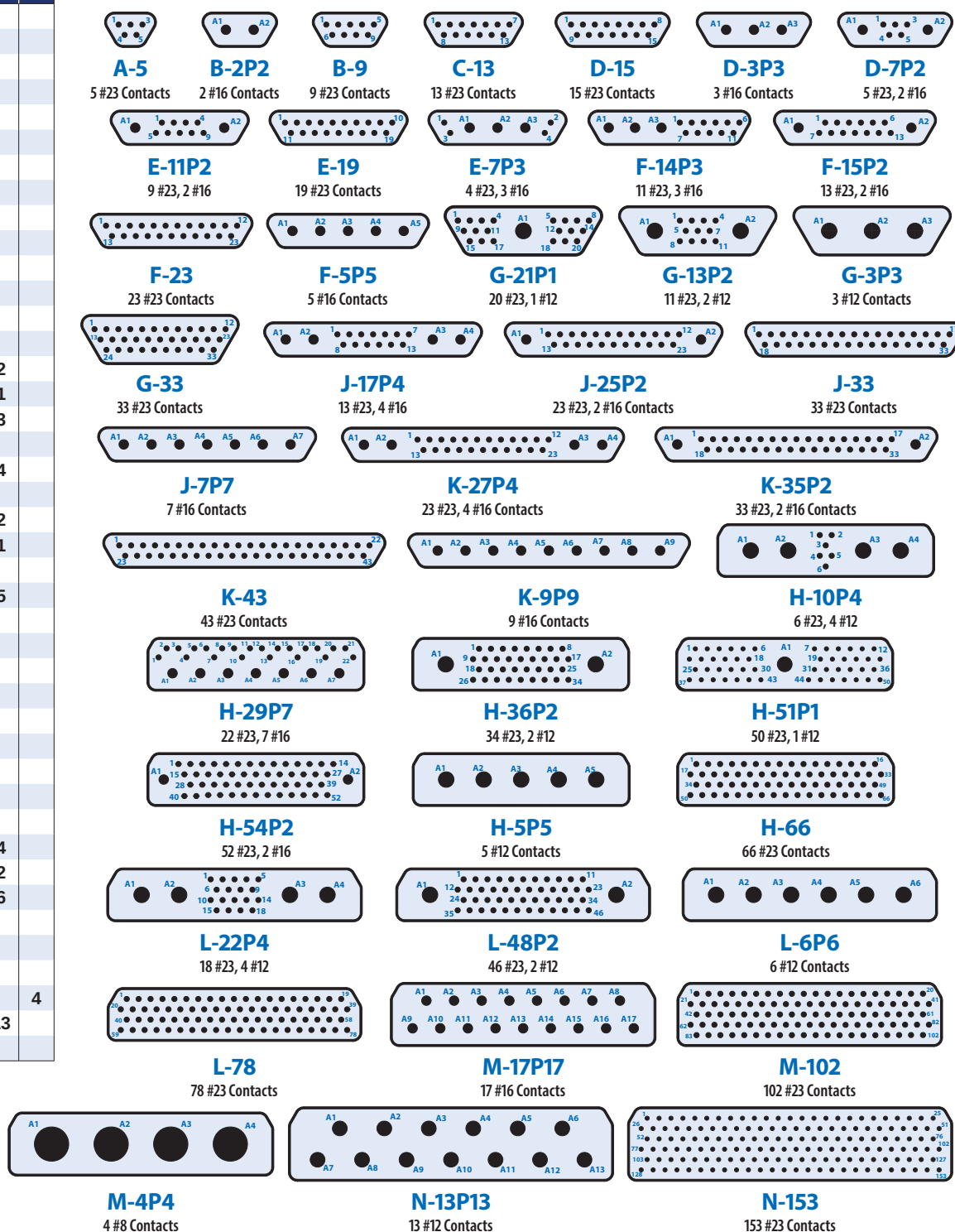


Insert Arrangements

INSERT ARRANGEMENTS				
Insert Arr.	No. of Contacts			
	#23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4
N-13P13			13	
N-153	153			

⚠ Cavity Numbers

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



MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof



Series 791 Material and Finish Options

SERIES 791 SCOOP-PROOF

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

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

TIN-ZINC PLATING

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

SERIES 79 SHELL FINISH OPTIONS

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

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

ALTERNATE SHELL MATERIAL AND FINISH CODES

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

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

⁽²⁾ Maximum temperature = +125°C

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof



Specifications

SERIES 791 SCOOP-PROOF

CONSTRUCTION

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

RATINGS

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

PRODUCT SPECIFICATIONS

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

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof



Panel Cutouts, 791 Series, Rear Panel Jackpost Mounting

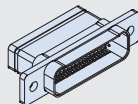
PANEL CUTOUT FOR SERIES 791 CABLE CONNECTORS AND PCB CONNECTORS

This panel cutout fits Series 791 cable connectors and PCB connectors with rear panel mount female jackposts. **Install PCB connector jackposts with threadlocking compound.**

This panel cutout is compatible with:

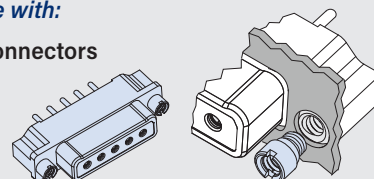
Cable Connectors

791-001
791-002
791-003
791-004



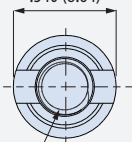
PCB Connectors

791-013
791-014
791-016
791-032



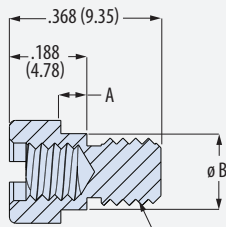
PCB CONNECTOR REAR PANEL JACKPOST R1-R6 PART NO. 799-145

SIZE A-G, J, K
.240 (6.10)
SIZE H, L
.325 (8.26)
SIZE M
.340 (8.64)
SIZE N
.340 (8.64)



THREAD

SIZE A-G, J, K
4-40 UNC-2B
SIZE H, L
6-32 UNC-2B
SIZE M
8-32 UNC-2B
SIZE N
10-32 UNF-2B



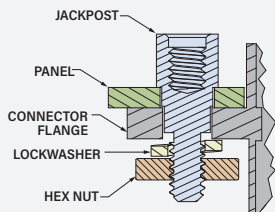
THREAD

SIZE A-G, J, K
6-32 UNC-2A
SIZE H, L
8-32 UNC-2A
SIZE M
10-32 UNF-2A
SIZE N
12-24 UNC-2A

Code	A ± .010 (0.25)		ø B ± .010 (0.25)	
	in	mm		
R1	.032	0.81	Size A-G, J, K .185 (4.70) Size H, L .226 (5.74) Size M .252 (6.40) Size N .262 (6.65)	
R2	.050	1.27		
R3	.062	1.59		
R4	.080	2.03		
R5	.093	2.36		
R6	.125	3.18		

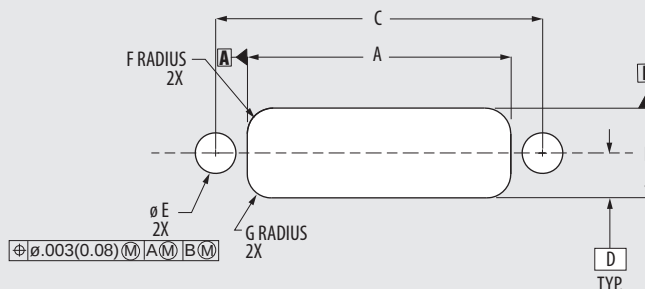
CABLE CONNECTOR REAR PANEL JACKPOST

JACKPOSTS ARE ORDERED SEPARATELY



Shell Size	Part Number
A - L	799-117*
M	799-176*

*See Section F Accessories for complete part numbers and dimensions



									ø E ± .002 (0.05)							
Shell Size	A ± .002 (0.05)		B ± .002 (0.05)		C Basic		D		Cable Connector		PCB Connector		F ± .002 (0.05)		G ± .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	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
B	.655	16.64	.418	10.62	.900	22.86	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
C	.805	20.45	.418	10.62	1.050	26.67	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
D	.880	22.35	.418	10.62	1.125	28.58	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
E	1.030	26.16	.418	10.62	1.275	32.39	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
F	1.180	29.97	.418	10.62	1.425	36.20	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
G	1.142	29.01	.506	12.85	1.388	35.26	.244	6.20	.165	4.19	.190	4.83	.110	2.79	.164	4.17
H	1.531	38.89	.521	13.23	1.900	48.26	.250	6.35	.220	5.59	.236	5.99	.150	3.81	.139	3.53
J	1.555	39.50	.418	10.62	1.800	45.72	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
K	1.930	49.02	.418	10.62	2.175	55.25	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
L	1.767	44.88	.521	13.23	2.136	54.25	.250	6.35	.220	5.59	.236	5.99	.150	3.81	.139	3.53
M	1.850	46.99	.623	15.82	2.200	55.88	.290	7.37	.220	5.59	.262	6.65	.163	4.14	.153	3.89
N	2.244	57.00	.708	17.98	2.600	66.04	.332	8.43	.278	7.06	.280	7.11	.163	4.14	.153	3.89

SERIES 79 MICRO-CRIMP RECTANGULAR CONNECTORS

PCB Footprints for Series 790 and 791

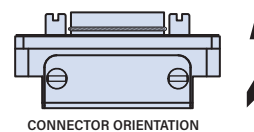
SERIES
79
TM

90° PCB Footprints for Series 790 and 791 Connectors



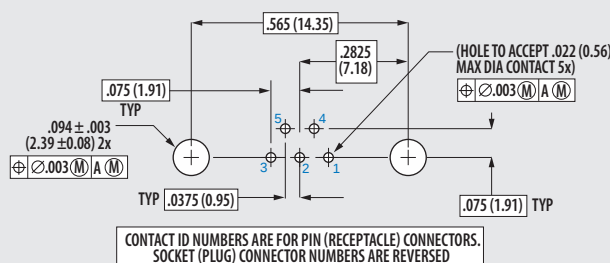
PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS

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



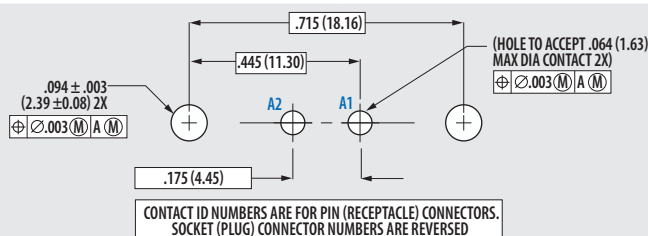
A-5

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



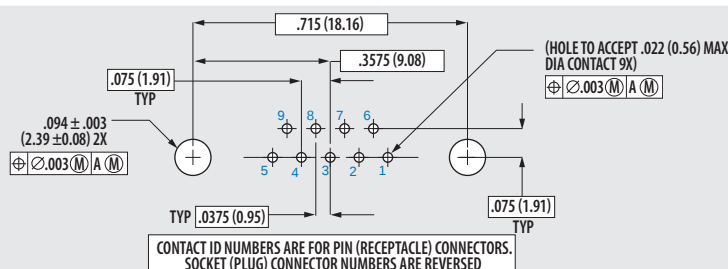
B-2P2

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



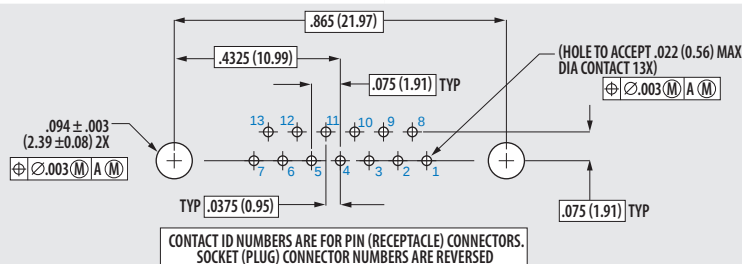
B-9

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



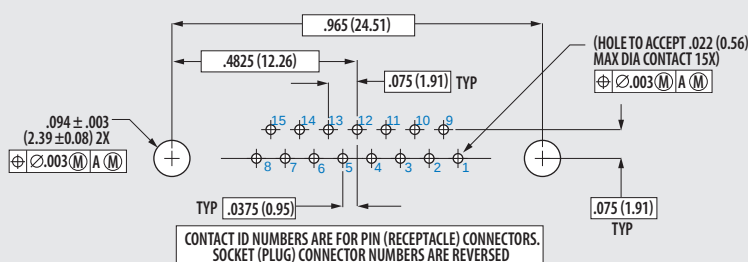
C-13

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.



SERIES 79 MICRO-CRIMP RECTANGULAR CONNECTORS

PCB Footprints for Series 790 and 791

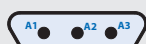
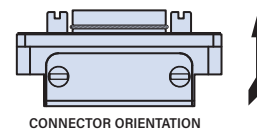


90° PCB Footprints for Series 790 and 791 Connectors

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

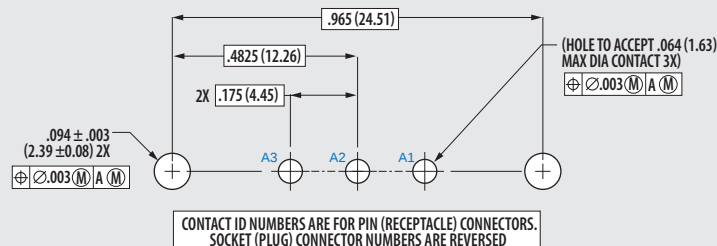


PCB hole patterns are shown for the *component mounting side* of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032



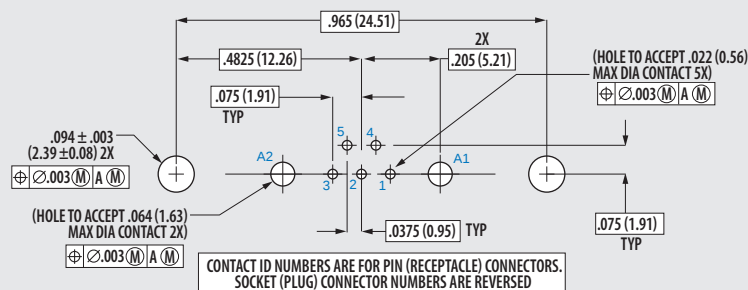
D-3P3

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



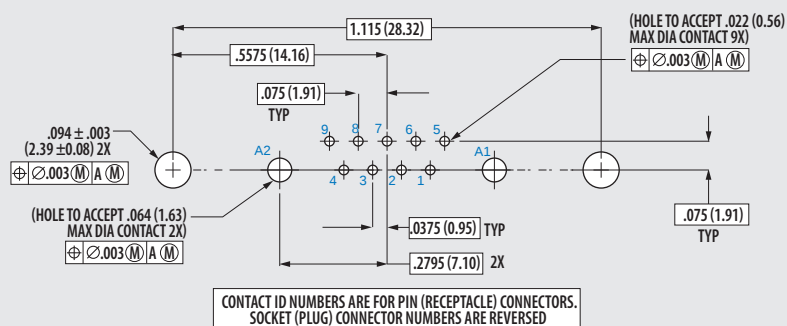
D-7P2

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



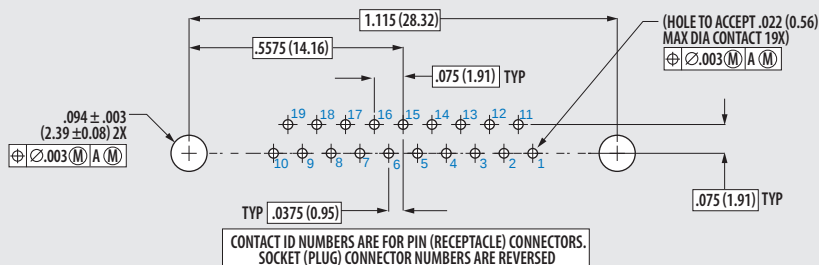
E-11P2

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.



SERIES 79 MICRO-CRIMP RECTANGULAR CONNECTORS

PCB Footprints for Series 790 and 791

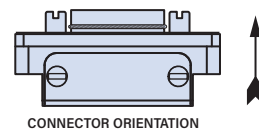
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90° PCB Footprints for Series 790 and 791 Connectors

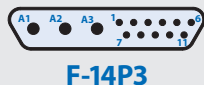
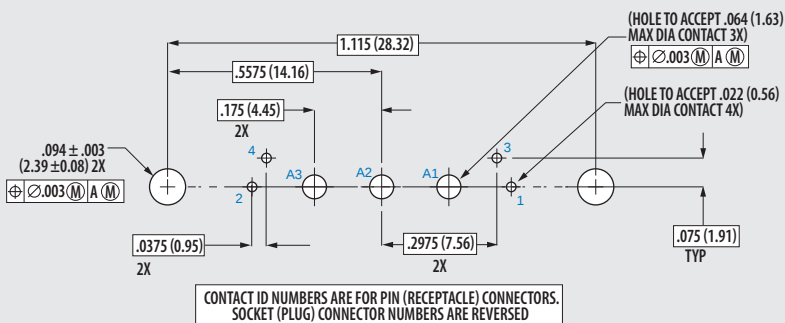


PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS

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

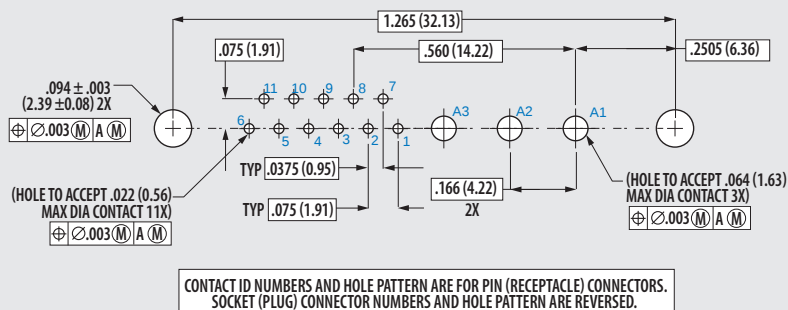


Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

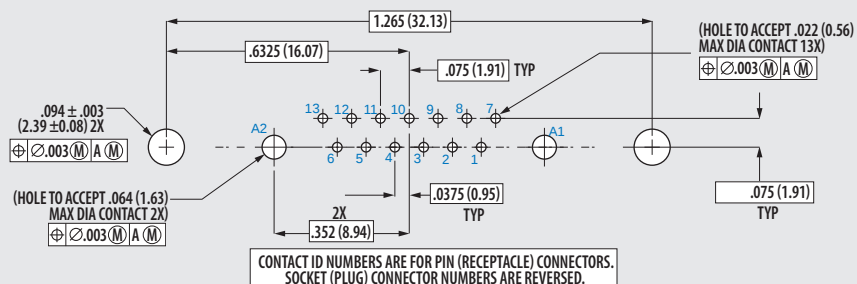


Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

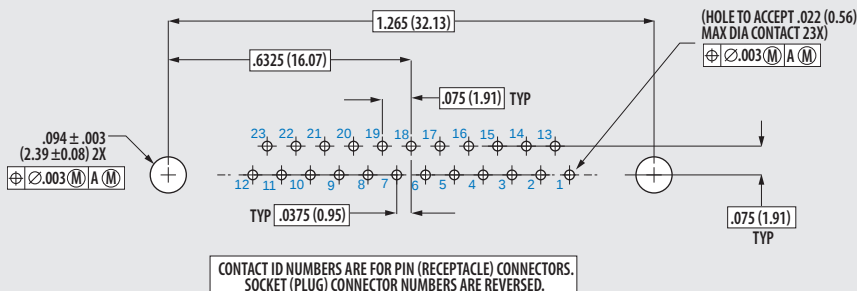
Non-symmetrical arrangement
Pattern must be reversed for use with plug (socket) connector.



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



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



SERIES 79 MICRO-CRIMP RECTANGULAR CONNECTORS

PCB Footprints for Series 790 and 791

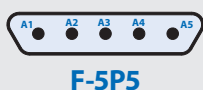
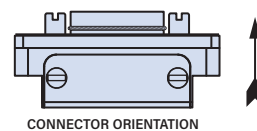


90° PCB Footprints for Series 790 and 791 Connectors

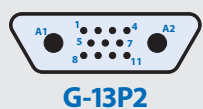
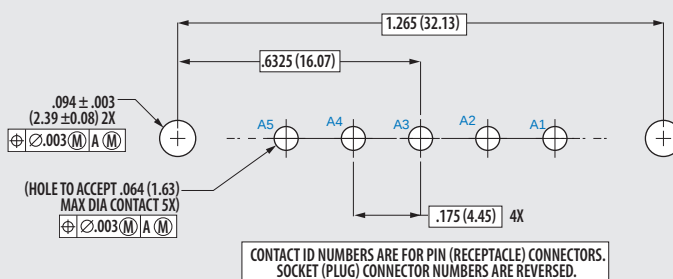
PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



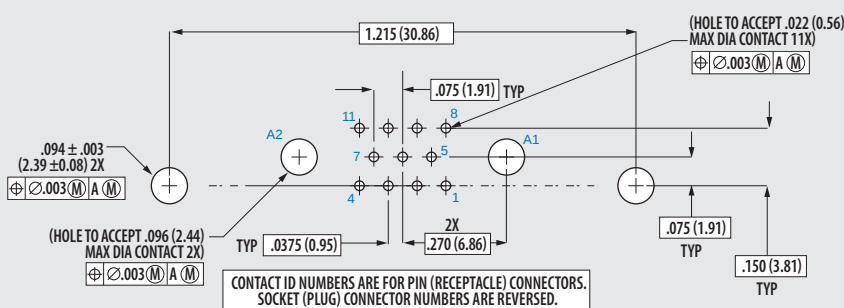
PCB hole patterns are shown for the *component mounting side* of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032



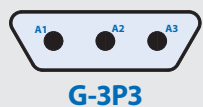
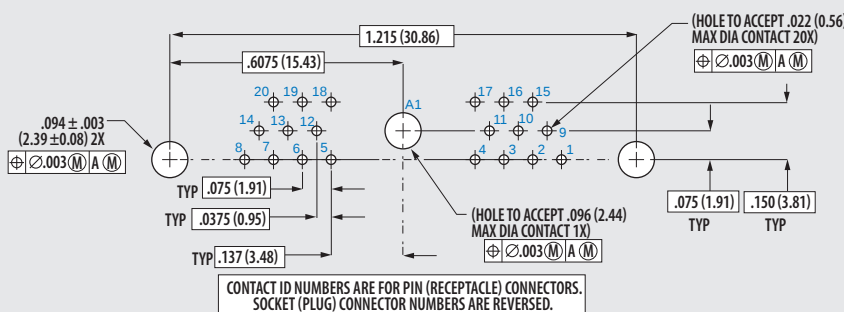
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



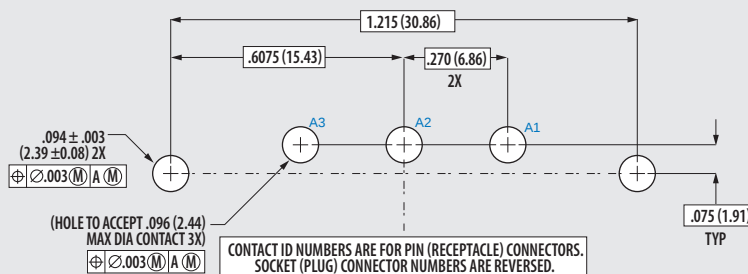
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



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



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



SERIES 79 MICRO-CRIMP RECTANGULAR CONNECTORS

PCB Footprints for Series 790 and 791

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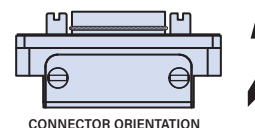
90° PCB Footprints for Series 790 and 791 Connectors



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

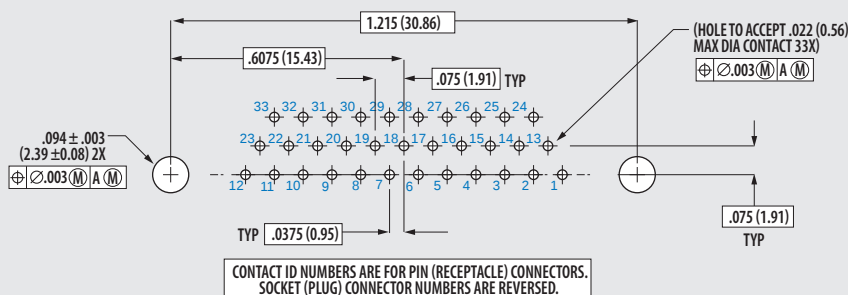
PCB hole patterns are shown for the **component mounting side** of the circuit board.

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



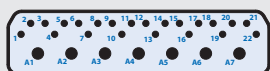
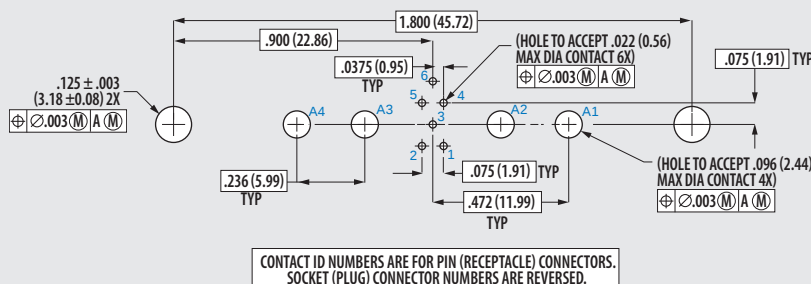
G-33

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



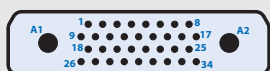
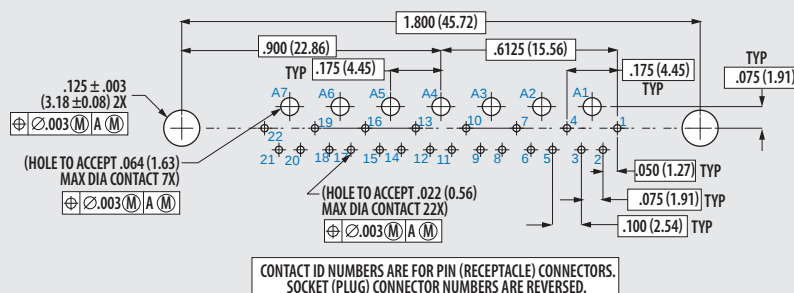
H-10P4

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



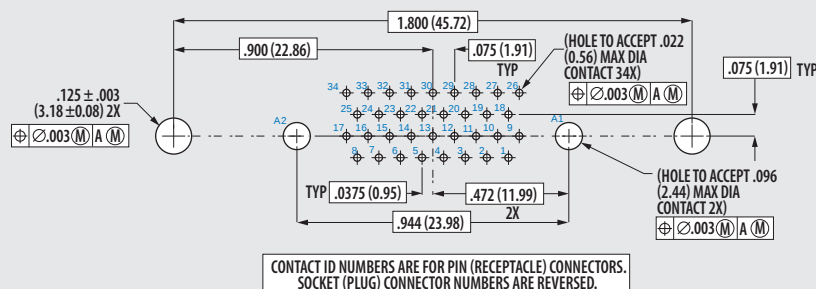
H-29P7

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

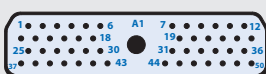
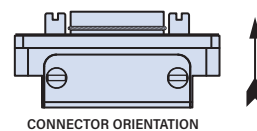


90° PCB Footprints for Series 790 and 791 Connectors

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

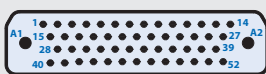
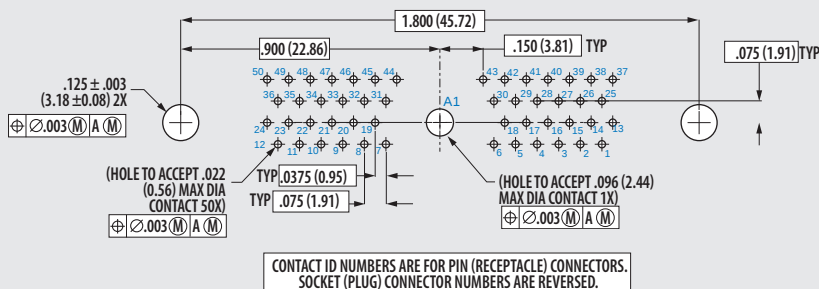


PCB hole patterns are shown for the *component mounting side* of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032



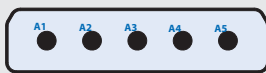
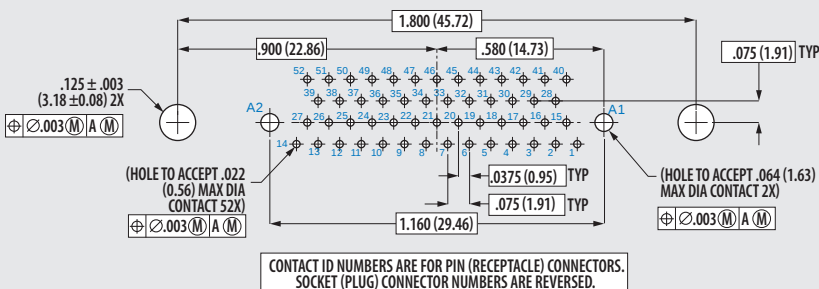
H-51P1

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



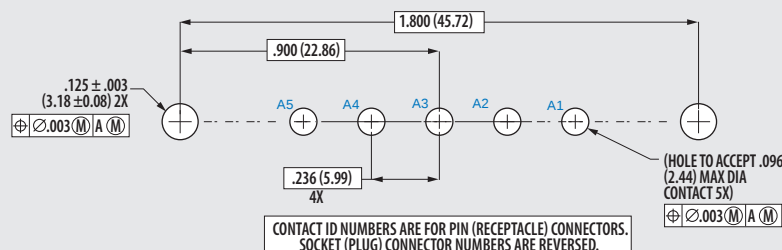
H-54P2

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



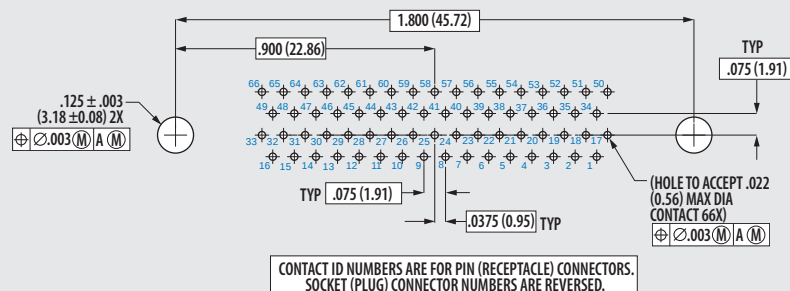
H-5P5

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.



SERIES 79 MICRO-CRIMP RECTANGULAR CONNECTORS

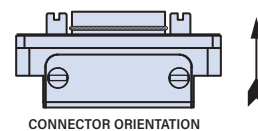
PCB Footprints for Series 790 and 791

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90° PCB Footprints for Series 790 and 791 Connectors

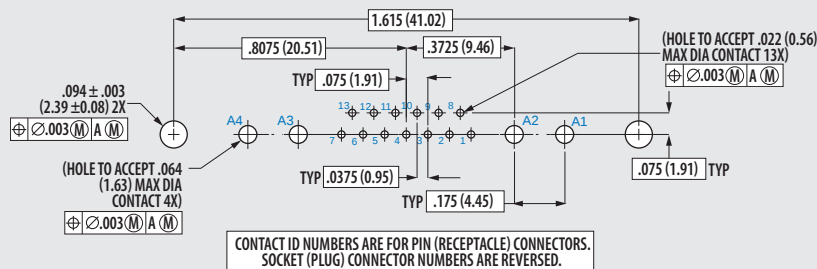


PCB hole patterns are shown for the *component mounting side* of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032



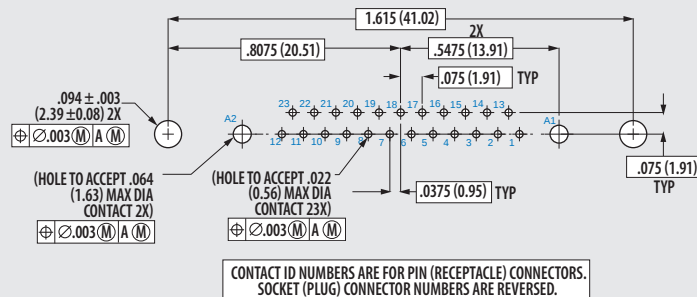
J-17P4

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



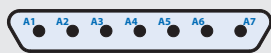
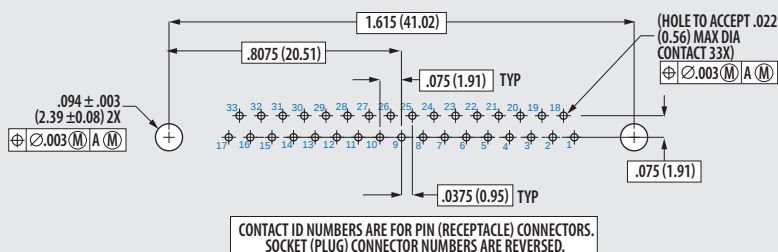
J-25P2

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



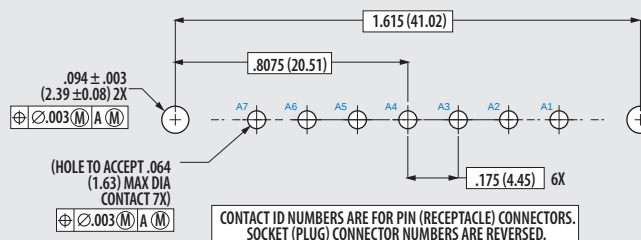
J-33

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

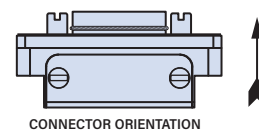


90° PCB Footprints for Series 790 and 791 Connectors

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

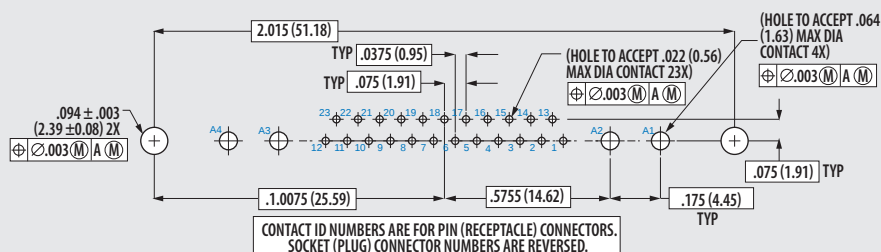


PCB hole patterns are shown for the *component mounting side* of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032



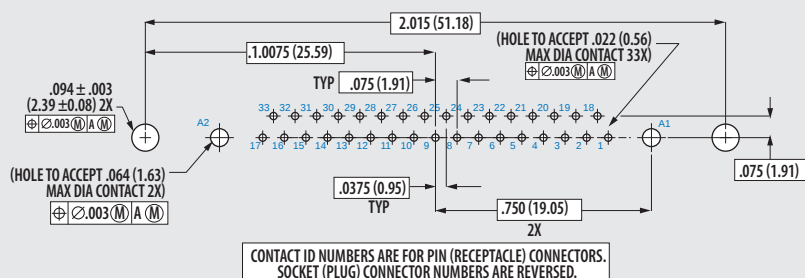
K-27P4

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



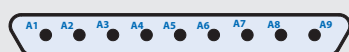
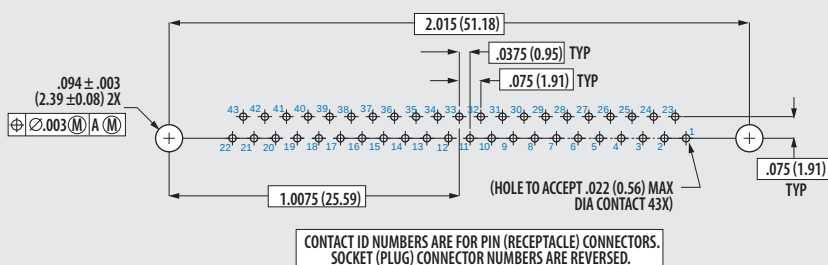
K-35P2

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



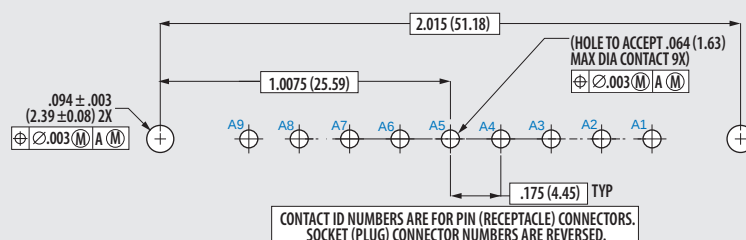
K-43

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



K-9P9

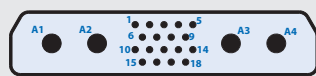
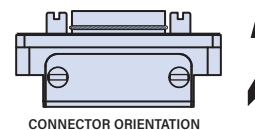
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



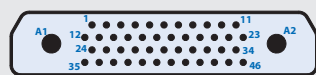
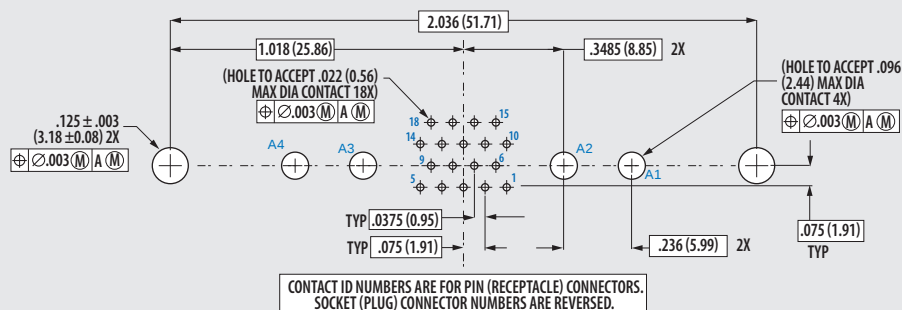
PCB FOOTPRINTS FOR SERIES 790, 791

90° PCB Footprints for Series 790 and 791 Connectors

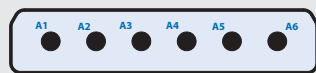
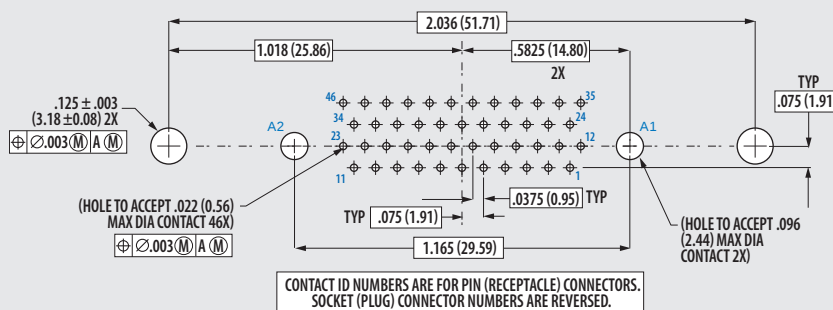
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032



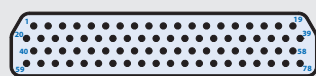
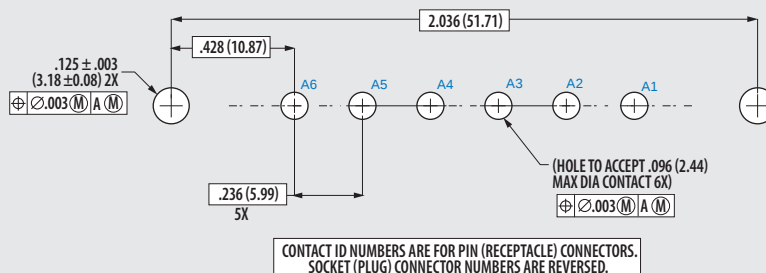
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



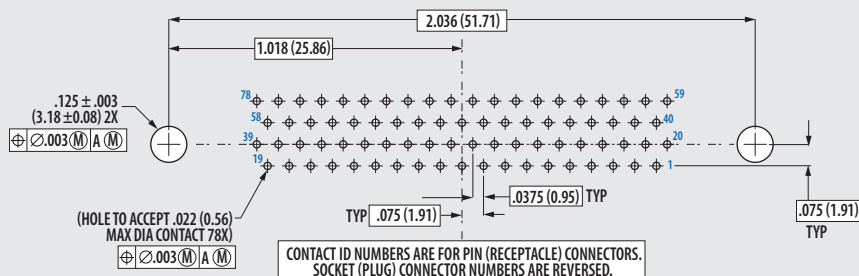
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



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



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



SERIES 79 MICRO-CRIMP RECTANGULAR CONNECTORS

PCB Footprints for Series 790 and 791

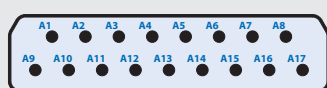
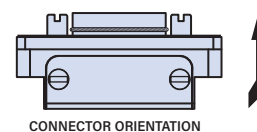


90° PCB Footprints for Series 790 and 791 Connectors

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

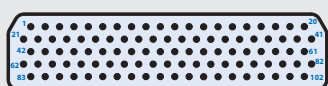
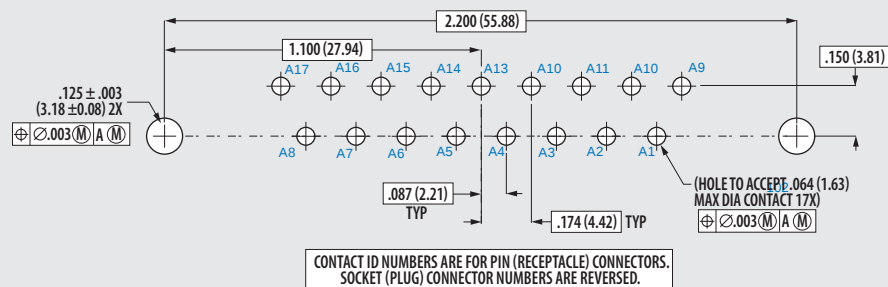


PCB hole patterns are shown for the *component mounting side* of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032



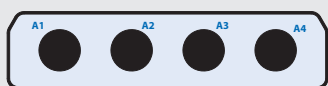
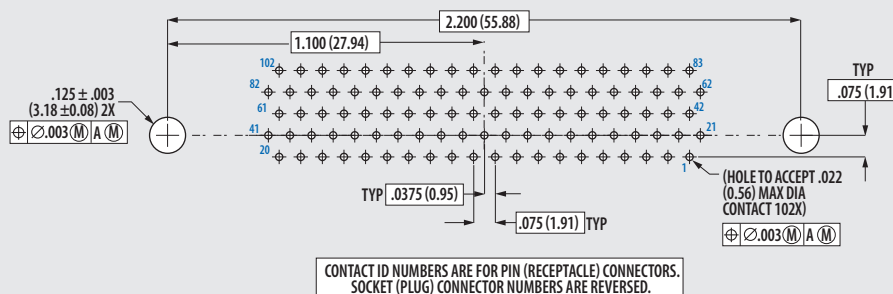
M-17P17

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



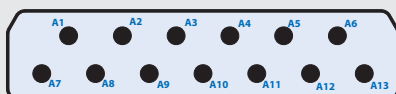
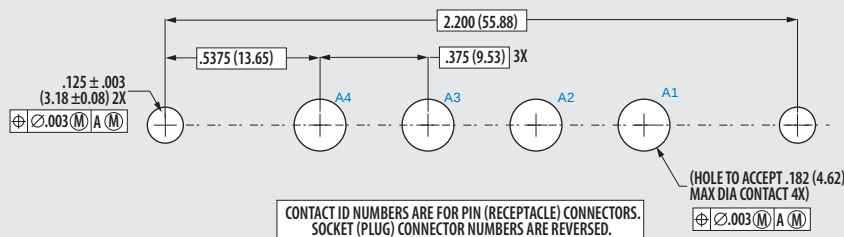
M-102

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



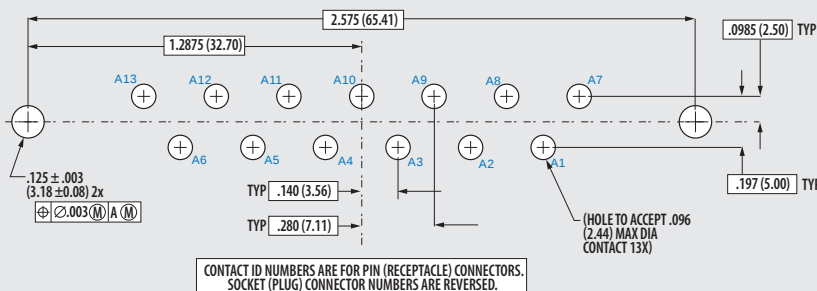
M-4P4

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

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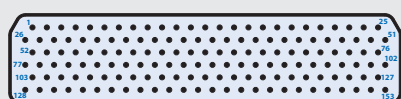
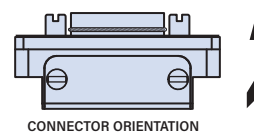
90° PCB Footprints for Series 790 and 791 Connectors



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

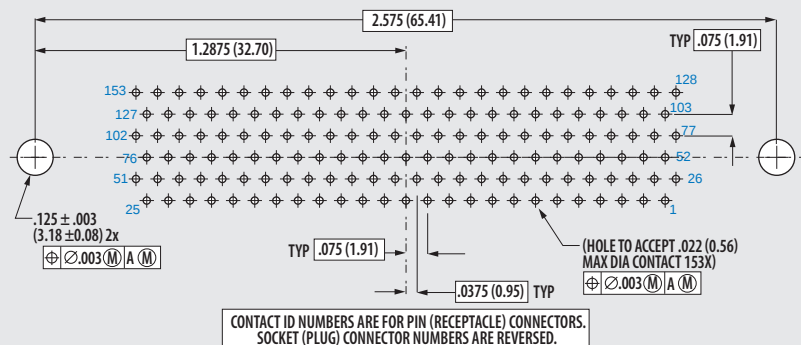
PCB hole patterns are shown for the *component mounting side* of the circuit board.

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.



PCB FOOTPRINTS FOR SERIES 790, 791

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 791 Scoop-Proof



Series 791 Polarization Keying Option

OPTIONAL POLARIZATION KEYS



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

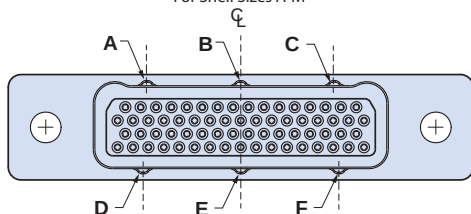
Series 791 connectors are available with an integral polarizing key. Keyed plug connectors have a raised boss on the shell. Receptacles have corresponding keyway. Ordering is simple—just add the keying position letter designator to the end of the part number.

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

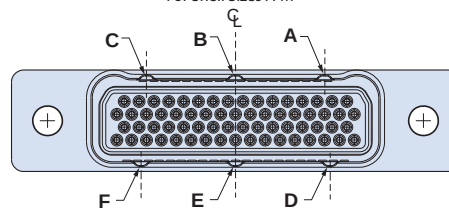
HOW TO ORDER

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

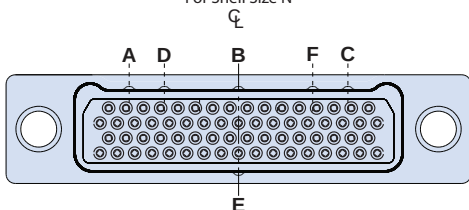
MOD-555 KEY LOCATIONS PLUG CONNECTOR MATING FACE
For Shell Sizes A-M



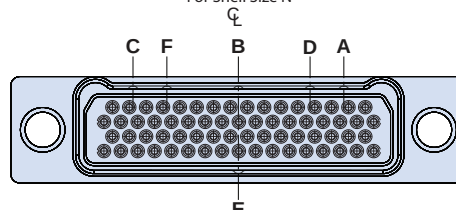
MOD-555 KEY LOCATIONS RECEPTACLE CONNECTOR MATING FACE
For Shell Sizes A-M



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