

SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors



891-014 and 891-015 Straddle Mount Connector

DUAL-ROW RECTANGULAR CONNECTORS



Straddle Mount PCB Connectors feature gold alloy TwistPin contacts, offering premium performance and reliability for demanding applications. Available with female threads, or with jackscrews for use with flexible circuits.

Pre-Tinned PC Tails are coated with Sn63Pb37 or Sn60Pb40 tin-lead for excellent solderability.

Choose Aluminum, Titanium or Stainless Steel Shells in twelve layouts from 9 to 91 contacts. Complies to the requirements of MIL-DTL-32139. These connectors are intermateable with any MIL-DTL-32139 compliant connector or Glenair Series 891 Dual-Row metal shell nanominiature connector.

HOW TO ORDER

Sample Part Number	891-014	-25P	A2	-STM	J
Series	891-014 = Plug 891-015 = Receptacle				
Insert Arrangement/Contact Type	Pins (891-014 Plug): 9P, 15P, 21P, 25P, 31P, 37P, 41P, 51P, 65P, 69P, 85P, 91P Sockets (891-015 Receptacle): 9S, 15S, 21S, 25S, 31S, 37S, 41S, 51S, 65S, 69S, 85S, 91S				
Shell Material and Finish	A1 = Aluminum Shell, Cadmium Plating A2 = Aluminum Shell, Electroless Nickel Plating A31 = Aluminum Shell, Zinc Nickel Plating, Black A33 = Aluminum Shell, Nickel PTFE Plating T = Titanium Shell, Unplated S = Stainless Steel Shell, Passivated				
Termination Type	STM = Straddle Mount				
Hardware	J = Jackscrew T = Female Threads (Stainless steel inserts installed in aluminum shells, tapped directly into stainless steel and titanium shells)				

PLUG HARDWARE

RECEPTACLE HARDWARE

J - Jackscrew	T - Female Thread	J - Jackscrew	T - Female Thread

PERFORMANCE SPECIFICATIONS

Contact Spacing: .025" (0.64) contact centers
Current Rating: 1 AMP maximum tested per EIA-364-70
DWV: 250 VAC RMS sea level, 100 VAC RMS 70,000 feet per EIA-364 Procedure 20
Insulation Resistance: 5000 Megohms minimum test voltage 100 VDC, per EIA-364 Procedure 21

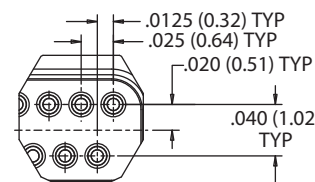
Operating Temperature: -55° C. to +125° C.
Contact Resistance: 71 millivolt drop maximum, 1 AMP current, any catalog supported wire type
Vibration: 20 g's, IAW EIA-364-28, Condition IV
Shock: 100 g's, IAW EIA-364-27, Condition G
Durability: 200 mating cycles per test procedure EIA-364-09

Corrosion Resistance: 48 hours salt spray IAW EIA-364-26, Condition B
Humidity: 240 hours, IAW EIA-364-31, Test Condition B
Contact Engaging/Separation Force: 5 ounce maximum, 0.4 ounce minimum
Thermal Vacuum Outgassing: Total mass loss (TML) 1.0% max., volatile condensable material (VCM) 0.1% max. IAW ASTM E595

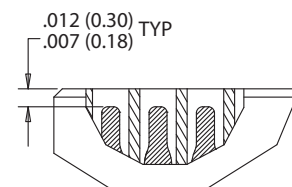
NOTES

- Material and Finish
 - Shell: see part number break down
 - Insulator: LCP/N/A
 - Contacts: gold alloy / unplated
 - Hardware: passivated stainless steel
- Inspect and Test IAW MIL-DTL-32139
- Interface dimensions per MIL-DTL-32139/3 and /4

DETAIL A



DETAIL B



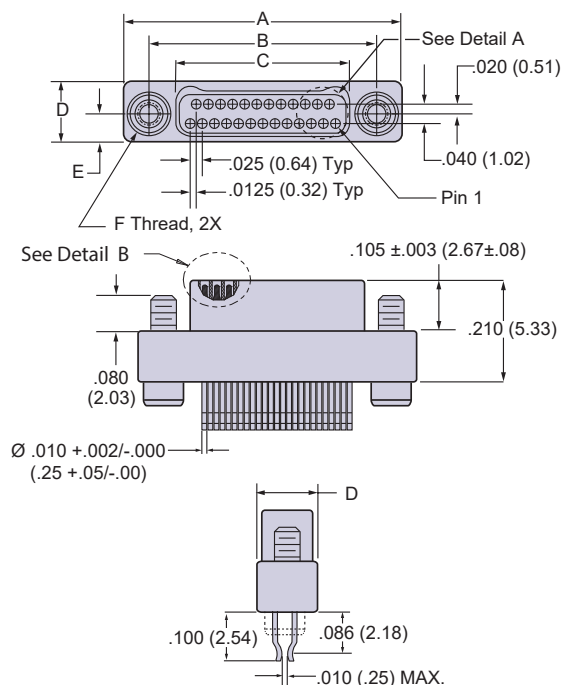
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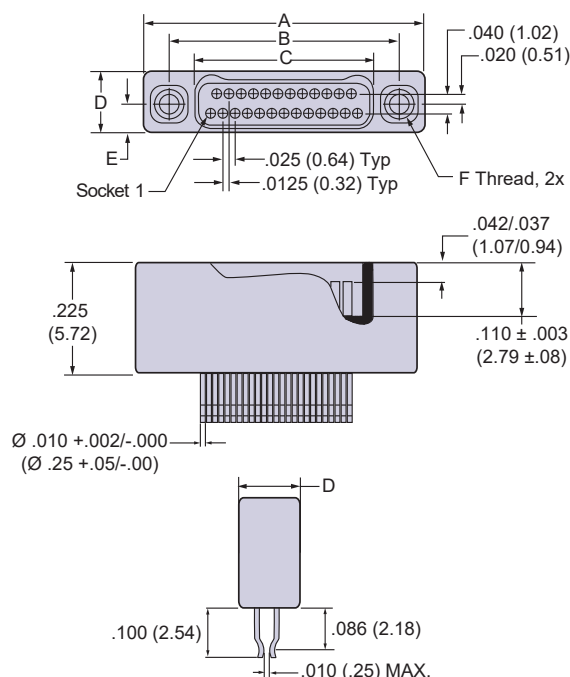
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DIMENSIONS

891-014 Plug (Pin) Connectors



891-015 Receptacle (Socket) Connectors



Layout	A ± .005 (± 0.13)	B BSC.	C BSC.	D ± .005 (± 0.13)	E BSC	F Thread
9P	.375 (9.53)	.270 (6.86)	.160 (4.06)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
9S	.375 (9.53)	.270 (6.86)	.163 (4.14)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
15P	.450 (11.43)	.345 (8.76)	.235 (5.97)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
15S	.450 (11.43)	.345 (8.76)	.238 (6.05)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
21P	.525 (13.34)	.420 (10.67)	.310 (7.87)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
21S	.525 (13.34)	.420 (10.67)	.313 (7.95)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
25P	.575 (14.61)	.470 (11.94)	.360 (9.14)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
25S	.575 (14.61)	.470 (11.94)	.363 (9.22)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
31P	.650 (16.51)	.545 (13.84)	.435 (11.05)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
31S	.650 (16.51)	.545 (13.84)	.438 (11.13)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
37P	.725 (18.42)	.620 (15.75)	.510 (12.95)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
37S	.725 (18.42)	.620 (15.75)	.513 (13.03)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
41P	.775 (19.69)	.670 (17.02)	.560 (14.22)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
41S	.775 (19.69)	.670 (17.02)	.563 (14.30)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
51P	.900 (22.86)	.795 (20.19)	.685 (17.40)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
51S	.900 (22.86)	.795 (20.19)	.688 (17.48)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
65P	1.075 (27.31)	.970 (24.64)	.860 (21.84)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
65S	1.075 (27.31)	.970 (24.64)	.863 (21.92)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
69P	1.125 (28.58)	1.020 (25.91)	.910 (23.11)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
69S	1.125 (28.58)	1.020 (25.91)	.913 (23.19)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
85P	1.377 (34.98)	1.246 (31.65)	1.110 (28.19)	.150 (3.81)	.0700 (1.78)	#2-56 UNC
85S	1.377 (34.98)	1.246 (31.65)	1.113 (28.27)	.150 (3.81)	.0700 (1.78)	#2-56 UNC
91P	1.452 (36.88)	1.321 (33.55)	1.185 (30.10)	.150 (3.81)	.0700 (1.78)	#2-56 UNC
91S	1.452 (36.88)	1.321 (33.55)	1.188 (30.18)	.150 (3.81)	.0700 (1.78)	#2-56 UNC

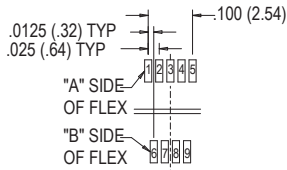
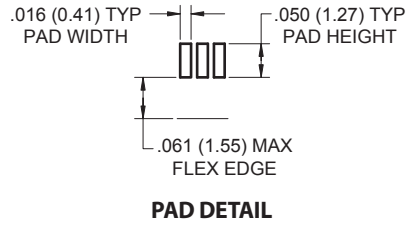
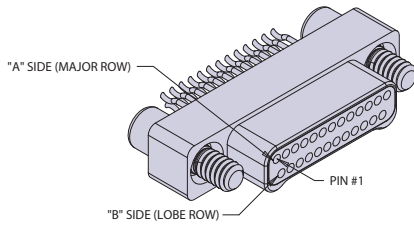
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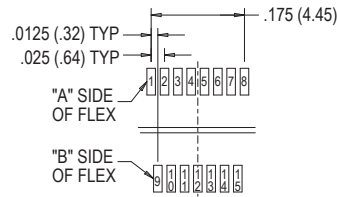


891-014 Straddle Mount Connector - Plug Footprint

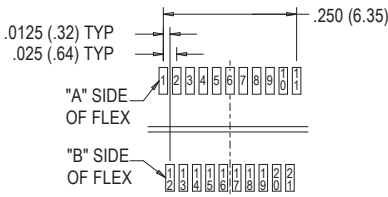
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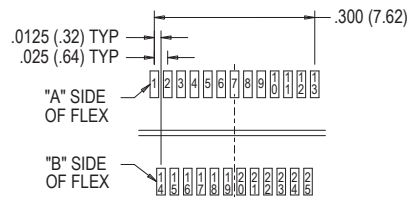
9 Contacts



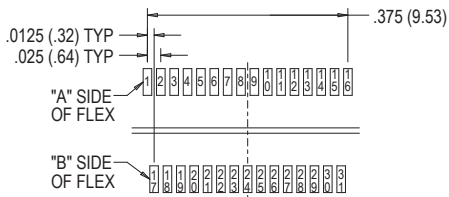
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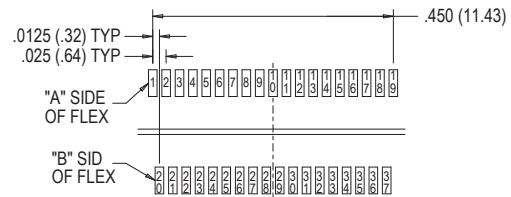
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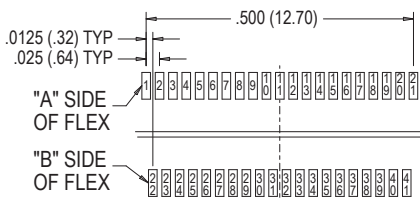
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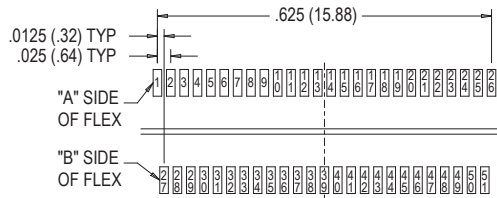
31 Contacts



37 Contacts



41 Contacts



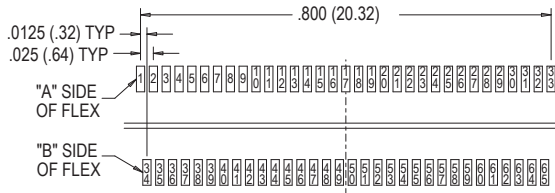
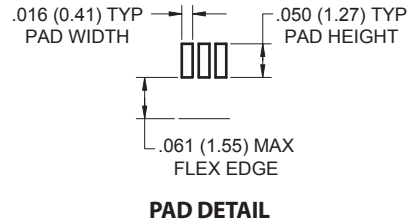
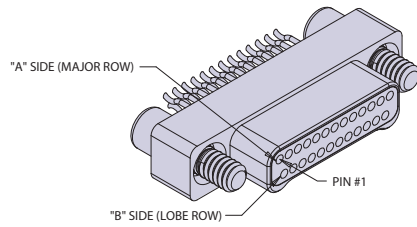
51 Contacts

Layouts shown are for connector mounting side of PC Board.

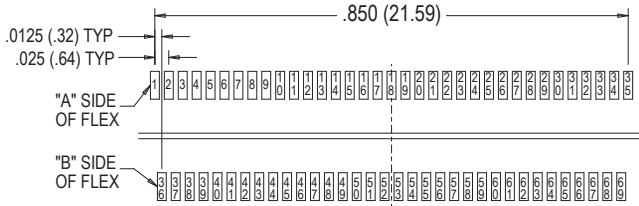
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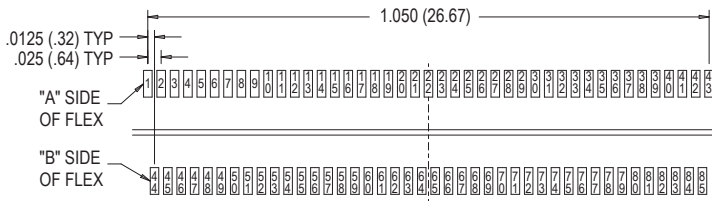
891-014 Straddle Mount Connector - Plug Footprint



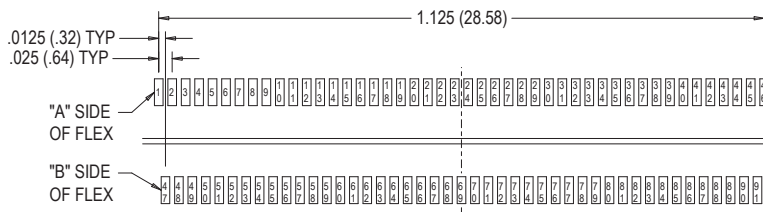
65 Contacts



69 Contacts



85 Contacts



91 Contacts

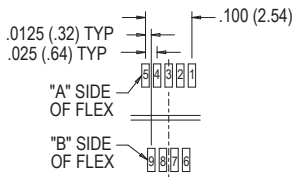
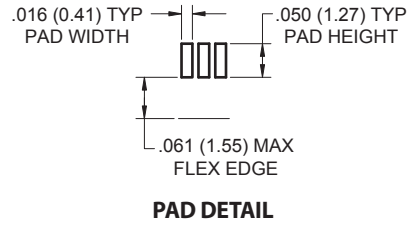
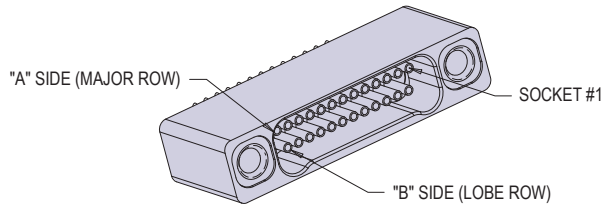
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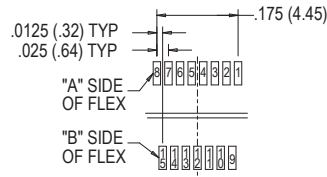


891-015 Straddle Mount Connector - Receptacle Footprint

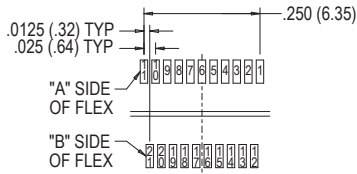
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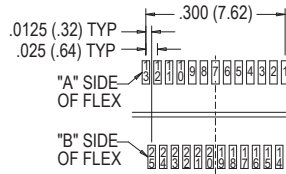
9 Contacts



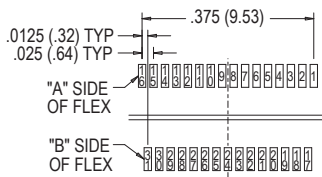
15 Contacts



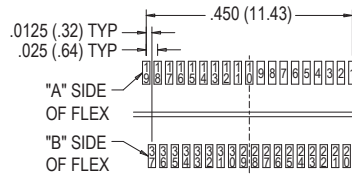
21 Contacts



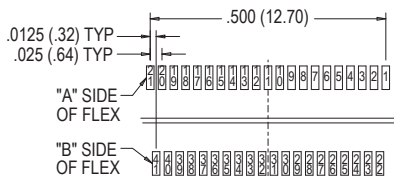
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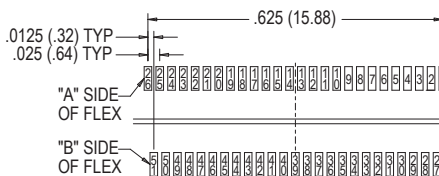
31 Contacts



37 Contacts



41 Contacts



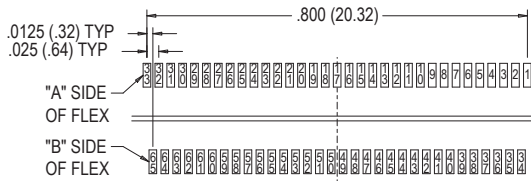
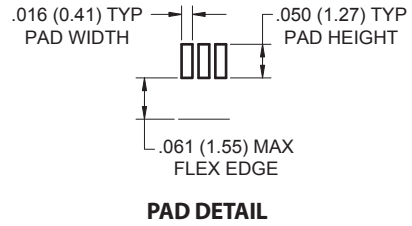
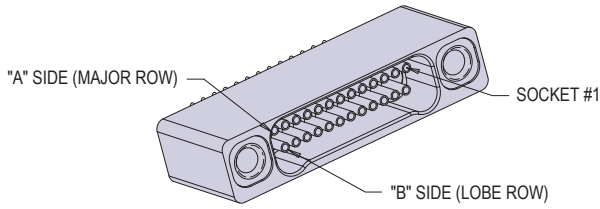
51 Contacts

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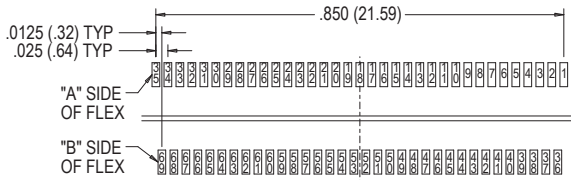
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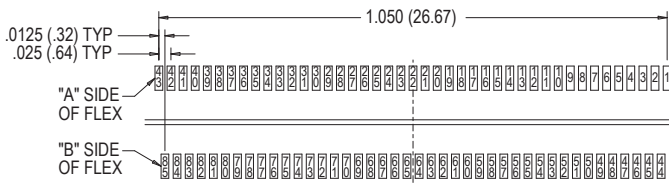
891-015 Straddle Mount Connector - Receptacle Footprint



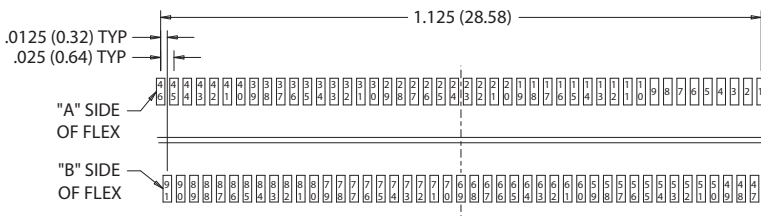
65 Contacts



69 Contacts



85 Contacts



91 Contacts

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