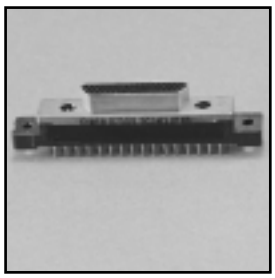
Features

- ***Plug & socket versions available in 9, 15, 21, 25, 31, 37, 51, and 100 positions.***
- ***Flow-through design facilitates inspection and cleaning after soldering.***
- ***All terminal block connectors use standard mounting hardware.***
- ***Metal shell provides EMI/RFI shielding capability.***
- ***Available in 3 styles: Straight mount, 90° right-angle mount, and 90° right-angle narrow profile mounting.***
- ***Silicone elastomer interfacial seal protects contacts from moisture and isolates them from each other and from the metal shell.***
- ***Meets requirements of MIL-PRF-83513-D.***
- ***Choice of insulator materials.***



Materials

Insulator: UL94V-0 glass-filled polyester or diallyl phthalate

Contacts: Pins - Copper alloy, Sockets - Copper alloy (machined)

Contact Plating: .000050 in gold

Shell: Aluminum alloy

Shell Plating: Yellow chromate over cadmium (std.) or electroless nickel

Environmental

Operating Temperature: -55°C to +135°C

Electrical

Current Rating: 3 Amps maximum

Withstanding Voltage: 600 VAC RMS @ sea level, 150 VAC @ 70,000 ft.

Contact Resistance: 8 milliohms maximum

Insulation Resistance: 1,000 megohms min between adjacent pins

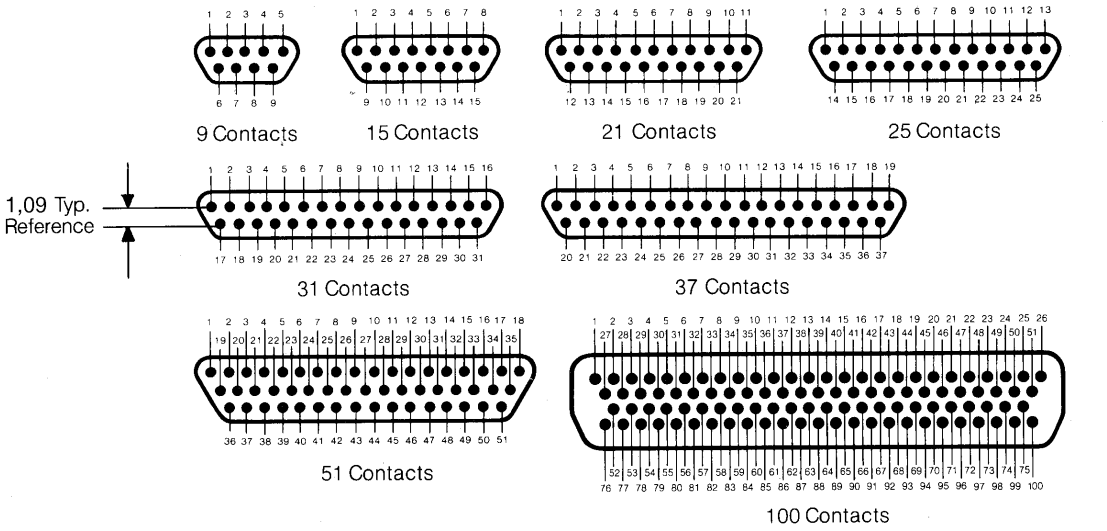
Mechanical

Individual Contact: 170.40 g maximum insertion force; 14.20 g minimum withdrawal force

Mating / Unmating Forces: See table

No. of Contacts	Maximum Mating Force Lb.	Maximum Mating Force Kg	Minimum Unmating Force Lb.	Minimum Unmating Force Kg
9	5.63	2.56	.28	.13
15	9.38	4.26	.47	.21
21	13.13	5.96	.66	.30
25	15.63	7.10	.78	.35
31	19.38	8.80	.97	.44
37	23.13	10.50	1.16	.53
51	31.88	14.47	1.59	.72
100	62.50	28.38	3.13	1.42

Contact Arrangements



Ordering Information

DC D M 25 S BR -- --

Cinch Microminiature D Connector

Insulator Type
C = Diallyl Phthalate Glass Reinforced
D = Thermoplastic Glass Reinforced

Mounting Type
M = Screw Mount Metal Shell

No. of Contacts
9, 15, 21, 25, 31, 37, 51, & 100

Contact Type
P = Pin (Plug)
S = Socket (Receptacle)

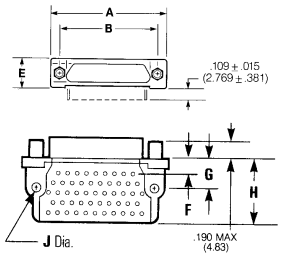
Termination Style
BR = 90° PCB
BS = Straight 180° PCB
CBR = 90° Narrow Profile PCB

Hardware*
No Letter = Less Hardware
P = Jackpost

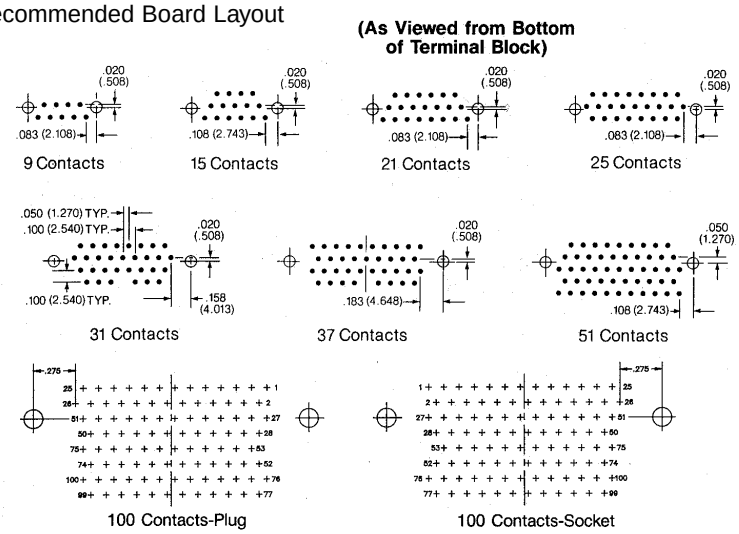
Shell Finish*
No Letter = Standard Yellow Chromate over Cadmium
N = Electroless Nickel

* For other options consult factory.

90° Narrow Termination



Recommended Board Layout



NOTE: For connector interface dimensions, see page 10.

Typ. Hole Dia. = 1.02 mm

No. of Contacts	A Max. in	A Max. mm	B ± .005 (0.13) in	B ± .005 (0.13) mm	C Max. in	C Max. mm
9 Plug	.785	19.94	.565	14.35	.308	7.82
9 Socket	.785	19.94	.565	14.35	.308	7.82
15 Plug	.935	23.75	.715	18.16	.308	7.82
15 Socket	.935	23.75	.715	18.16	.308	7.82
21 Plug	1.085	27.56	.865	21.97	.308	7.82
21 Socket	1.085	27.56	.865	21.97	.308	7.82
25 Plug	1.085	30.10	.965	24.51	.308	7.82
25 Socket	1.185	30.10	.965	24.51	.308	7.82
31 Plug	1.335	33.91	1.115	28.32	.308	7.82
31 Socket	1.335	33.91	1.115	28.32	.308	7.82
37 Plug	1.485	37.72	1.265	32.13	.308	7.82
37 Socket	1.485	37.72	1.265	32.13	.308	7.82
51 Plug	1.435	36.45	1.215	30.86	.351	8.92
51 Socket	1.435	36.45	1.215	30.86	.351	8.92
100 Plug	2.175	55.25	1.800	45.72	.394	10.00
100 Socket	2.175	55.25	1.800	45.72	.394	10.00

No. of Contacts	F ± .010 (0.25) in	F ± .010 (0.25) mm	G ± .010 (0.25) in	G ± .010 (0.25) mm	H Max. in	H Max. mm	J ± .005 (0.13) in	J ± .005 (0.13) mm
9 Plug	.230	5.84	.250	6.35	.420	10.67	.096	2.44
9 Socket	.230	5.84	.250	6.35	.420	10.67	.096	2.44
15 Plug	.130	3.30	.250	6.35	.420	10.67	.096	2.44
15 Socket	.130	3.30	.250	6.35	.420	10.67	.096	2.44
21 Plug	.130	3.30	.250	6.35	.420	10.67	.096	2.44
21 Socket	.130	3.30	.250	6.35	.420	10.67	.096	2.44
25 Plug	.130	3.30	.250	6.35	.420	10.67	.096	2.44
25 Socket	.130	3.30	.250	6.35	.420	10.67	.096	2.44
31 Plug	.130	3.30	.250	6.35	.520	13.21	.996	2.44
31 Socket	.130	3.30	.250	6.35	.520	13.21	.096	2.44
37 Plug	.130	3.30	.250	6.35	.520	13.21	.096	2.44
37 Socket	.130	3.30	.250	6.35	.520	13.21	.096	2.44
51 Plug	.150	3.81	.300	7.62	.650	16.51	.096	2.44
51 Socket	.150	3.81	.300	7.62	.650	16.51	.096	2.44
100 Plug	.200	5.08	.400	10.16	1.000	25.40	.125	3.18
100 Socket	.200	5.08	.400	10.16	1.000	25.40	.125	3.18