

**Panel Mounting Dimensions**

Pin and socket,  
rear mounted



Pin and socket,  
front mounted



Pin, front mounted  
Socket, rear mounted



**Panel Cutout Dimensions**



Figure 1. Front Mounting



Figure 2. Rear Mounting



Figure 3. Edgeboard Mounting

No. of Contacts	Figure Number	A		B		C	
		+0.004 -0.000 in	(.101) (.000) mm	+0.004 -0.000 in	(.101) (.000) mm	+0.005 -0.000 in	(.127) (.000) mm
9	1	.408	10.36	.172	4.37	.570	14.48
	2	.373	9.47	.216	5.49	.570	14.48
	3	-	-	-	-	.570	14.48
15	1	.558	14.17	.172	4.37	.720	18.29
	2	.523	13.28	.216	5.49	.720	18.29
	3	-	-	-	-	.720	18.29
21	1	.708	17.98	.172	4.37	.870	22.10
	2	.674	17.12	.216	5.49	.870	22.10
	3	-	-	-	-	.870	22.10
25	1	.808	20.52	.172	4.37	.970	24.64
	2	.774	19.66	.216	5.49	.970	24.64
	3	-	-	-	-	.970	24.64
31	1	.958	24.33	.172	4.37	1.120	28.45
	2	.924	23.47	.216	5.49	1.120	28.45
	3	-	-	-	-	1.120	28.45
37	1	1.108	28.14	.172	4.37	1.270	32.26
	2	1.074	27.28	.216	5.49	1.270	32.26
	3	-	-	-	-	1.270	32.26
51	1	1.058	26.87	.215	5.46	1.220	30.99
	2	1.024	26.01	.259	6.58	1.220	30.99
	3	-	-	-	-	1.220	30.99

**Connector Dimensions - Plastic Shell**

**Plug**



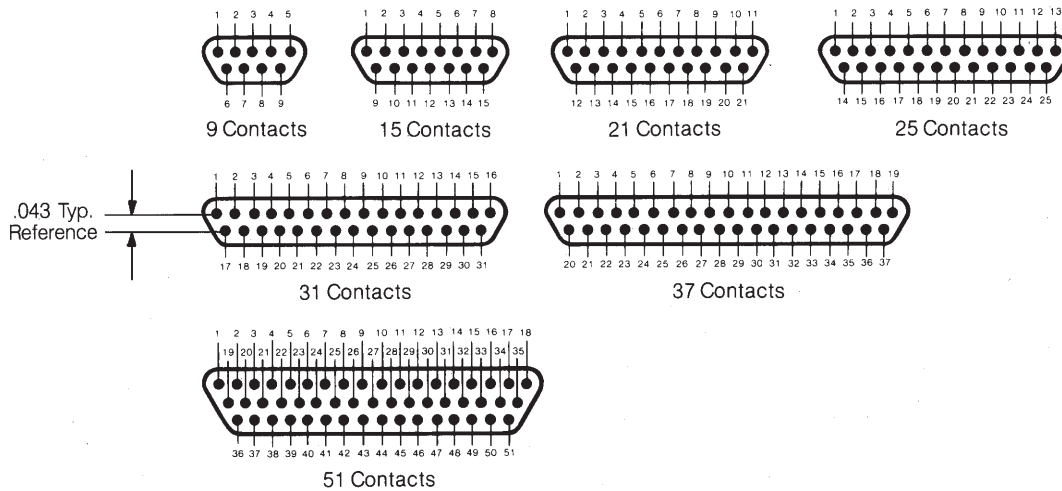
**Socket**



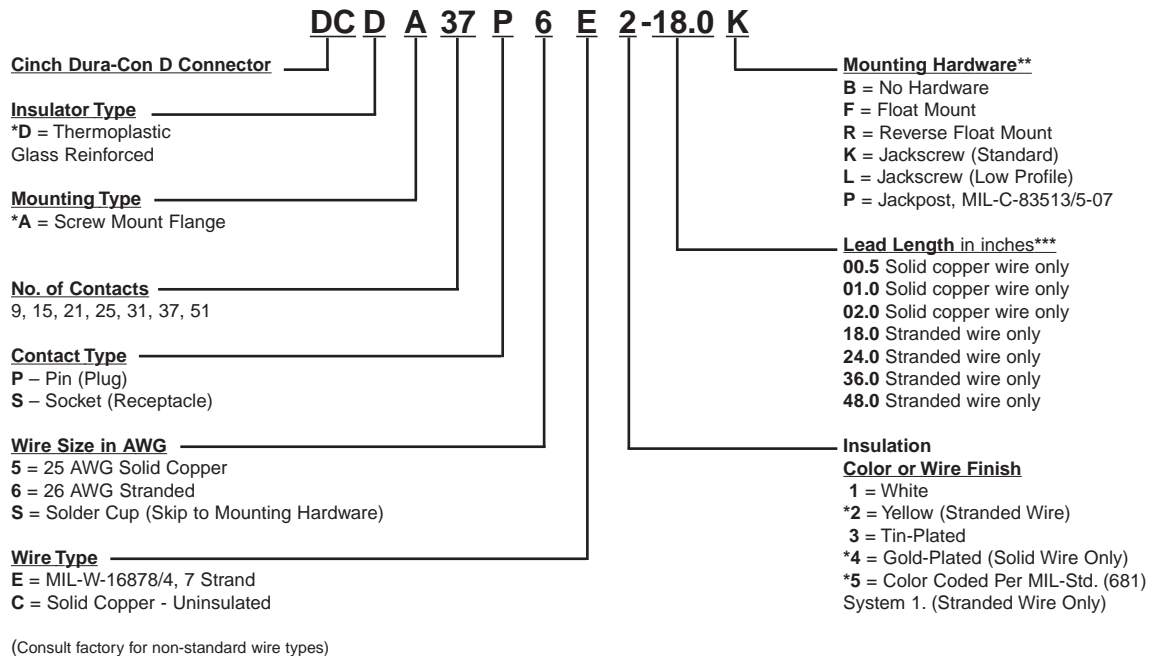
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No. of Contacts	A		B Max.		C		D		E		F Max.	
	± .010 (.254)				+.010 (.254) -.018 (.457)		±.005 (.127)		±.010 (.254)			
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
9 Plug	.778	19.76	.292	7.42	.398	10.11	.565	14.35	.208	5.28	.173	4.39
9 Socket	.778	19.76	.376	9.55	.398	10.11	.565	14.35	.208	5.28	.173	4.39
15 Plug	.928	23.57	.442	11.23	.548	13.92	.715	18.16	.208	5.28	.173	4.39
15 Socket	.928	23.57	.526	13.36	.548	13.92	.715	18.16	.208	5.28	.173	4.39
21 Plug	1.078	27.38	.592	15.04	.698	17.73	.865	21.97	.208	5.28	.173	4.39
21 Socket	1.078	27.38	.676	17.17	.698	17.73	.865	21.97	.208	5.28	.173	4.39
25 Plug	1.178	29.92	.692	17.58	.798	20.27	.965	24.51	.208	5.28	.173	4.39
25 Socket	1.178	29.92	.776	19.71	.798	20.27	.965	24.51	.208	5.28	.173	4.39
31 Plug	1.328	33.73	.842	21.39	.948	24.08	1.115	28.32	.208	5.28	.173	4.39
31 Socket	1.328	33.73	.926	23.52	.948	24.08	1.115	28.32	.208	5.28	.173	4.39
37 Plug	1.478	37.54	.992	25.20	1.098	27.89	1.265*	32.13	.208	5.28	.173	4.39
37 Socket	1.478	37.54	1.076	27.33	1.098	27.89	1.265*	32.13	.208	5.28	.173	4.39
51 Plug	1.428	36.27	.942	23.93	1.048	26.62	1.215	30.86	.250	6.35	.220	5.59
51 Socket	1.428	36.27	1.026	26.06	1.048	26.62	1.215	30.86	.250	6.35	.220	5.59

**Contact Arrangements**  
 (Face view of pin insulator)  
 (Use reverse order for socket)



**Ordering Information**



\* - Indicates Cinch std. option.

\*\* - See p. 5-12 for std. hardware dims. See p. 5-13 for non-std. hardware & p. 5-31 for Mil spec. hardware both sold separately.

\*\*\*- Length Tolerance: solid wire = ± 3/32", standard wire = ± 1/4".

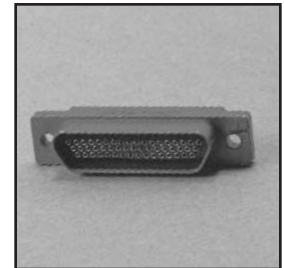
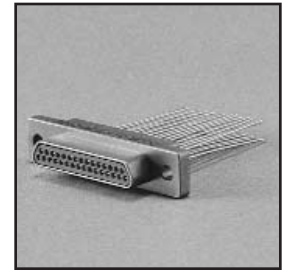
**Dura-Con**  
**High Reliability**  
**Metal Shell**

.050" (1.27mm) Density  
 Solder Cup/Wire  
 D-Microminiature



FEATURES

- Both plug and socket available in 9, 15, 21, 25, 31, 37, 51, and 100 positions.
- Several styles of mounting are available for cable-to-cable, cable-to-panel mount, and cable-to-board mount.
- Aluminum shell provides extra strength and EMI/RFI shielding capability. Plating options available.
- Silicone elastomer compression interfacial seal protects contacts from moisture and humidity and isolates contacts from each other and the metal shell.
- Meets requirements of MIL-C-83513 except where noted.
- Rugged twist-pin contacts resistant to shock and vibration make metal shell Dura-Con an excellent choice for harsh environments such as airborne or space applications.



MATERIALS

**Insulator:** UL94V-0 rated 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  
**Contact Resistance:** 8 milliohms maximum

MECHANICAL

**Individual Contact:** 6 oz. (170.40 g) maximum insertion;  
 0.5 oz. (14.20 g) minimum withdrawal  
**Mating / Unmating Force:** See table

No. of Contacts	Maximum Mating Force		Minimum Unmating Force	
	Lb.	Kg	Lb.	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