

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



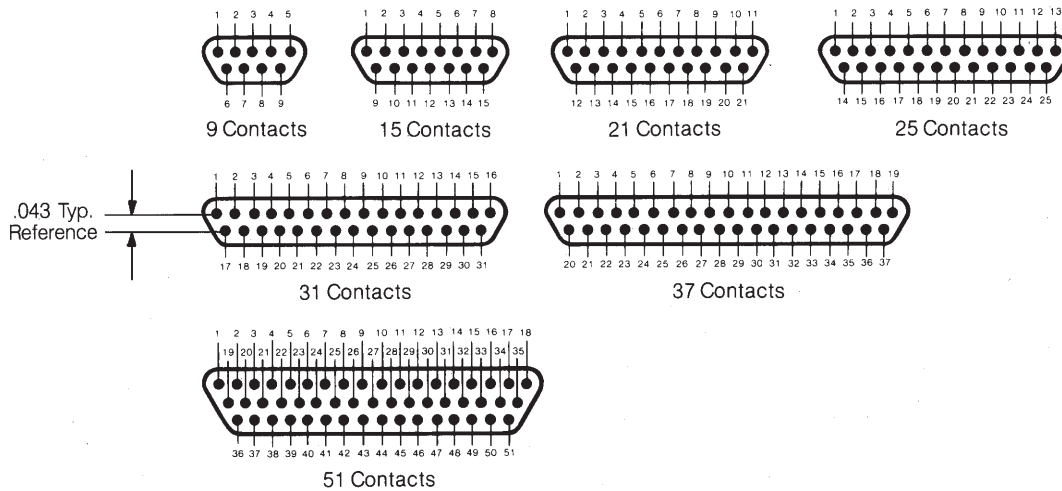
Socket



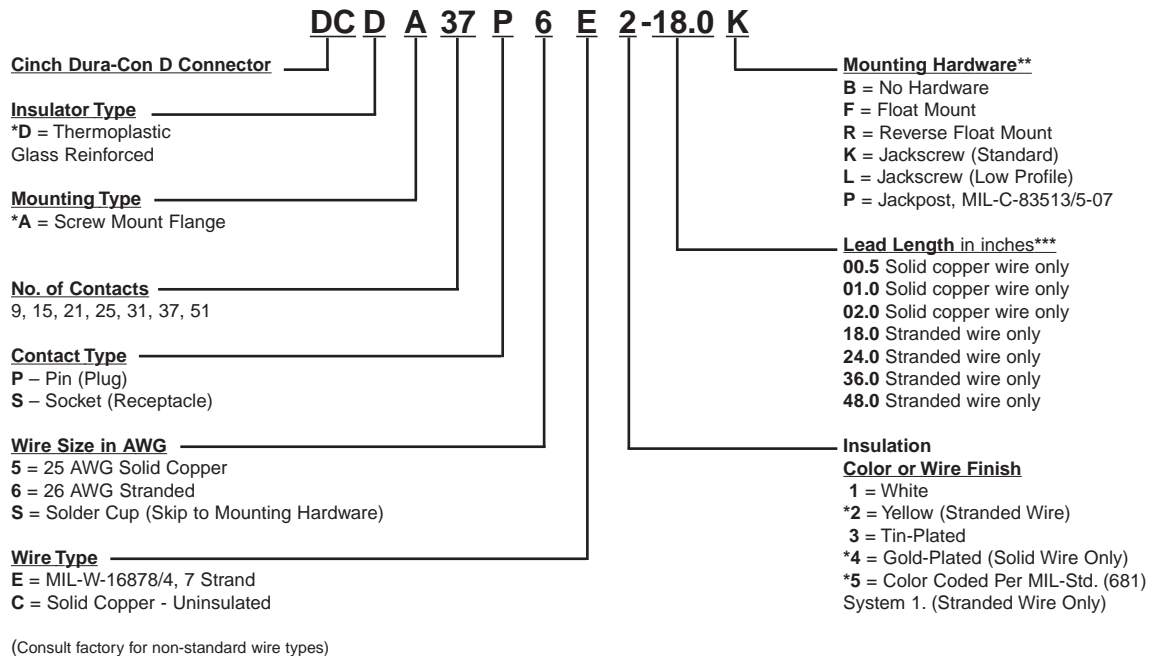
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| No. of Contacts | A | | B Max. | | C | | D | | E | | F Max. | |
|-----------------|--------------|-------|--------|-------|------------------------------|-------|--------------|-------|--------------|------|--------|------|
| | ±.010 (.254) | | | | +.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 = $\pm 3/32"$, standard wire = $\pm 1/4"$.

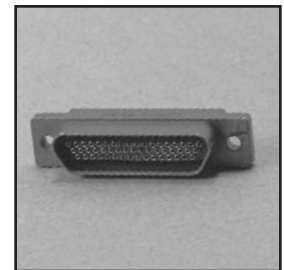
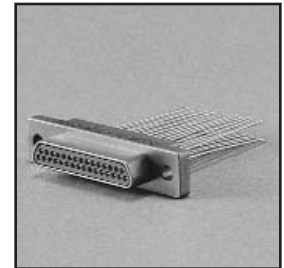
Dura-Con
High Reliability
Metal Shell

.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 |

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