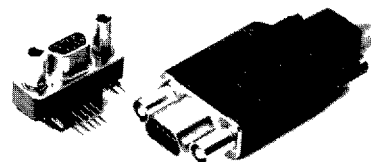
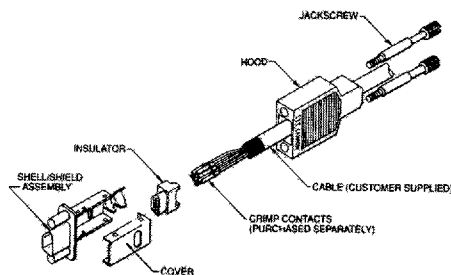


The MDSM is the industry's smallest D-type connector for shielded I/O wire-to-board applications.

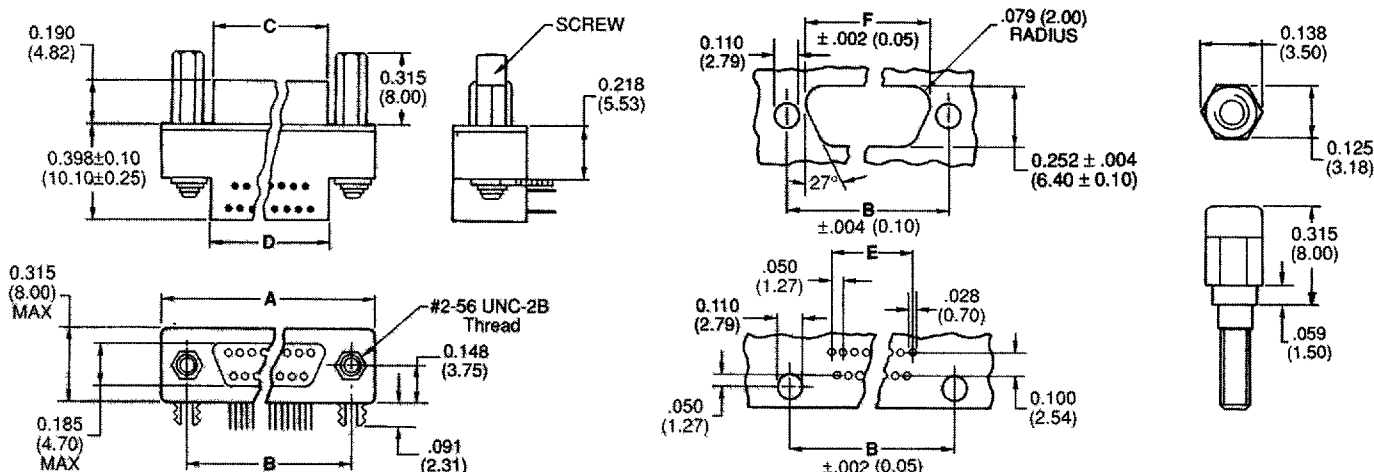
Featuring an integral snap-together shield can and stamped contacts, the MDSM is available in five layouts: 9, 15, and 25, and stacked 9 and 15.

- .050" pitch for space-saving applications
- Crimp contacts supplied on reels for fast hand or semi-automatic termination
- AWG 26-28 wire accommodation
- Cable connector supplied as a complete kit including shield, hood and jackscrews
- Integral boardlocks for fast PCB connector installation

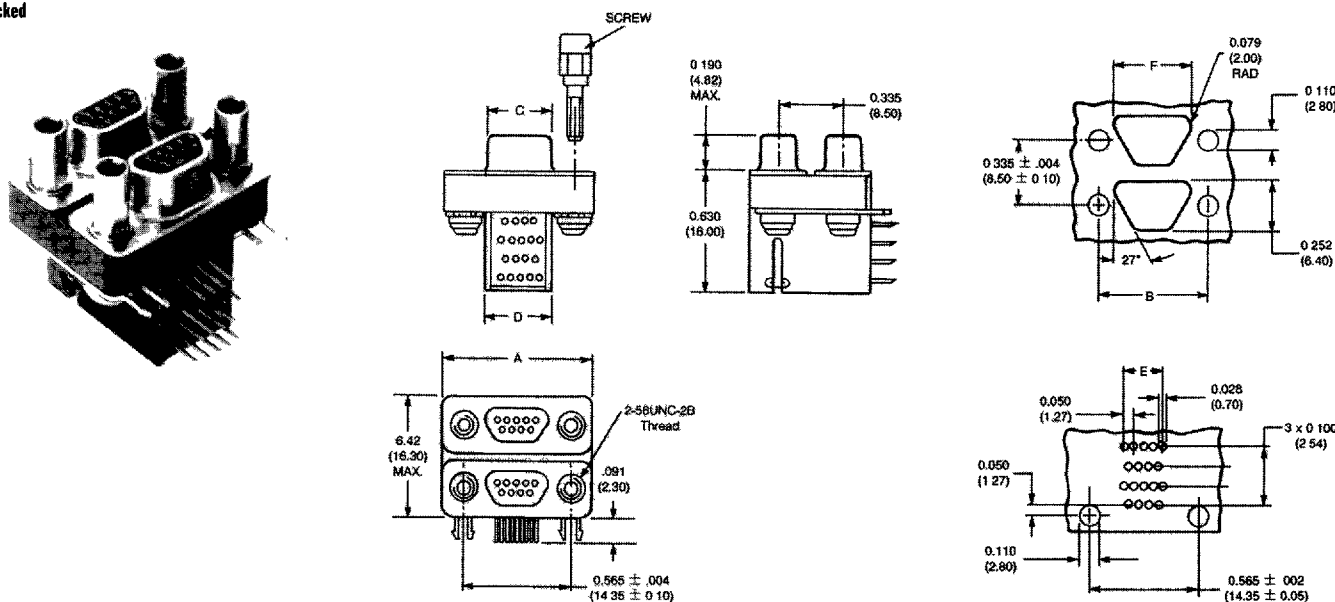


## PCB Connector 90°

### Single



### Stacked



### Part Numbers

| Layout | Single        |               | Stacked       |               | A<br>Max.     | B             | C<br>Max.     | D<br>Max.     | E             | F             |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|        | Thumb Screw   | Slide Latch   | Thumb Screw   | Slide Latch   |               |               |               |               |               |               |
| 9/18   | MDSM-9PE-Z10  | MDSM-9PE-Z22  | MDSM-18PE-Z10 | MDSM-18PE-Z22 | 0.783 (19.90) | 0.565 (14.35) | 0.339 (8.60)  | 0.354 (9.00)  | 0.200 (5.08)  | 0.403 (10.24) |
| 15/30  | MDSM-15PE-Z10 | MDSM-15PE-Z22 | MDSM-30PE-Z10 | MDSM-30PE-Z22 | 0.933 (23.70) | 0.715 (18.16) | 0.488 (12.40) | 0.504 (12.80) | 0.350 (8.89)  | 0.553 (14.05) |
| 25     | MDSM-25PE-Z10 | MDSM-25PE-Z22 | —             | —             | 1.183 (30.05) | 0.965 (24.50) | 0.740 (18.80) | 0.754 (19.15) | 0.600 (15.24) | 0.803 (20.40) |

Highlighted part numbers indicate standard product; usually available with shorter lead times.

**ITT Cannon**

D Subminiature Products • P.O. Box 35000, Santa Ana, CA 92705-6500 • (714) 261-5300 • FAX (714) 757-8324

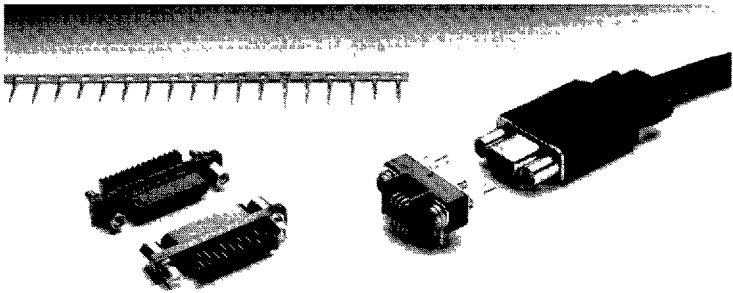
Dimensions are shown in inches (millimeters).  
Dimensions subject to change.

The Micro-D MDSM/MDS product line offers a half-pitch .050" solution to commercial applications in need of a microminiature D-type connector.

Requiring only one-third the space of conventional D Subminiature connectors, the Micro-D offers a choice of shielded wire-to-board (MDSM) or unshielded wire-to-wire (MDS).

Stamped crimp snap contacts are supplied on reels for fast hand or semi-automatic crimping. MDSM cable connector kits contain jackscrews, hoods and integral shield cans, eliminating the need for optional accessories or expensive overmolding.

MDSM printed circuit board connectors are supplied with snap-in boardlocks, simplifying assembly and providing a grounding path to the board.



When shielding is not required, the MDS all-plastic provides a convenient connector for internal cabling.

For MDSM/MDS assembly instructions, refer to Manual No. MY-1/190.

Performance and Material Specifications

MATERIALS AND FINISHES

|                   |                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------|
| Insulators:       | Thermoplastic, UL 94V-0 rated                                                           |
| Contacts:         | Copper alloy, plated gold over nickel, or Pd/Ni engaging end, tin/lead termination area |
| Hardware:         | Copper Alloy, nickel-plated                                                             |
| Shield and cover: | Steel, tin plated                                                                       |
| Hood:             | Thermoplastic, UL 94V-0 rated                                                           |
| Backshells:       | Thermoplastic, UL 94V-0 rated                                                           |
| Jackscrews:       | Copper alloy, nickel-plated                                                             |

ELECTRICAL DATA

|                                      |                    |
|--------------------------------------|--------------------|
| Current Rating:                      | 1A/25°C; .7A/70°C. |
| Voltage Rating:                      | 350 V.A.C.         |
| Contact Resistance:                  | 20 milliohms max.  |
| Insulation Resistance:               | 5000 megohms min.  |
| Operating Temperature:               | -55/+125°C         |
| Shielding Effectiveness: (MDSM only) | 70 dB              |
| U.L. File Number:                    | E8572              |

MECHANICAL CHARACTERISTICS

|                     |           |
|---------------------|-----------|
| Wire Accommodation: | 26-28 AWG |
| Contact Spacing:    | .050"     |

Layouts

(Face View of Pin Insert – Use Reverse Order for Socket Side)

Standard

