

# The Micro Line - .050" Contact Spacing



The Cannon MICRO Series established the standards for performance and reliability in miniature interconnects. Exceptionally versatile, MICRO connectors are available in rectangular, circular, and strip configurations, with 3 amp MICROPIN™/MICROSOCKET™ contacts on .050(1.27) centers, or with special arrangements of power and coaxial contacts.

The heart of the Cannon MICROPIN/MICROSOCKET contact system is a multi-element Twist Pin Contact recessed with an insulating housing. The rugged, cylindrical sockets are mounted in the exposed half of the connector. When connector

halves are mated, the chamfered sockets are first aligned by the connector body, then guide the spiral MICROPIN contacts into proper and positive alignment, even under worst-case tolerance conditions. This is Cannon's POS-A-LINE connectors design.

The multiple spring elements of the MICROPIN, then under compression, form a multi-point contact system of high mechanical and electrical integrity. Contacts will provide a high degree of reliability over hundreds of mating and unmating cycles, and have proven themselves in applications that range from commercial products to equipment that has been landed on the moon.

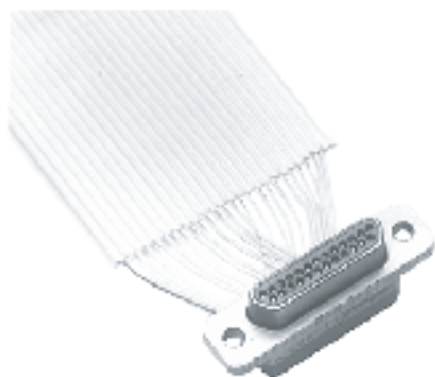
- Contact rating - 3 amps max.
- Contacts centers - .050(1.27).
- Wire sizes - #24 thru #32 AWG, stranded or solid.
- Contact termination - multiple indent crimp.
- Contact retention - fixed via epoxy.
- Contact materials and finish - Copper alloy, gold-plated per MIL-G-45204, Type II, Grade C, Class 1 over copper flash.
- Mating/unmating force - 8 oz. per contact, max./0.5 oz. per contact min.

## Test Data

The table below summarizes the results of key tests performed in accordance with MIL-STD-1344, where applicable. Data is applicable to standard

connectors with standard termination. Variations may affect this data, so please consult the factory for further information on your requirements.

| Test                             | Method                                                                             | Criteria of Acceptance                                                            |
|----------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Dielectric Withstanding Voltage  | Method 3001:                                                                       |                                                                                   |
|                                  | 900 VAC at sea level                                                               | No breakdown                                                                      |
|                                  | 300 VAC at 70,00' altitude                                                         | No breakdown                                                                      |
|                                  | Solder Pots and Shielded Cable 600 VAC at sea level                                | No breakdown                                                                      |
|                                  | 150 VAC at 70,000' altitude                                                        | No breakdown                                                                      |
| Insulation Resistance            | Method 3003                                                                        | 5,000 megohms minimum                                                             |
| Thermal Shock                    | Method 1003, Condition A:<br>- 55°C to +125°C                                      | No physical damage                                                                |
| Physical Shock                   | Method 2004, Condition E:<br>50 G's, 3 axes, 6 millisecond duration sawtooth pulse | No physical damage<br>No loss of continuity > 1 µsec                              |
| Vibration                        | Method 2005, Condition IV:<br>20 G's, 10-2,000 Hz. 12 hrs                          | No physical damage<br>No loss of continuity > 1 µsec                              |
| Durability                       | 500 cycles of mating and unmating, 500 CPH max.                                    | No mechanical or electrical defects                                               |
| Moisture Resistance              | Method 1002, Type II omit steps 7a & 7B                                            | Insulation resistance > 100 megohms                                               |
| Salt Spray                       | Method 1001, Condition B:<br>48 hours                                              | Shall be capable of mating and unmating, and meet contact resistance requirements |
| Contact Resistance (MIL-STD-202) | Method 307<br>At 3 amps<br>At 1 milliamps                                          | 8 milliohms maximum<br>10 milliohms maximum                                       |
| Contact Retention                | Per MIL-C-83513                                                                    | 5 lb. minimum axial load                                                          |



MDM connectors are used in applications requiring highly reliable, extremely small, lightweight connectors with higher density contact configurations than available in traditional rectangular connectors. They are available in 8 shell sizes accommodating from 9 to 100 contacts, and special arrangements of power and coaxial contacts.

These connectors are designed to meet the rapidly increasing demands for an environmental, high performance, rugged, moisture-sealed microminiature connector. This connector employs size 24 MICRO-

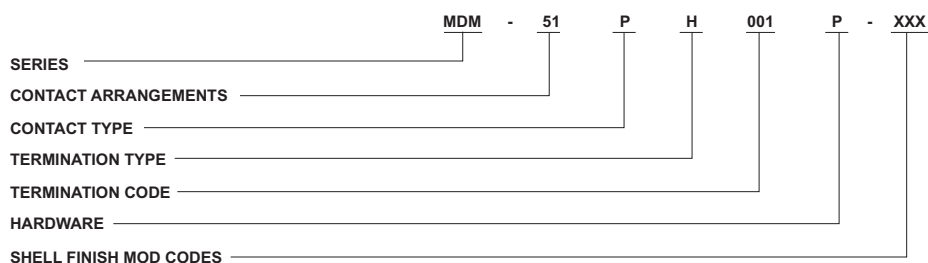
PIN®/MICROSOCKET® contacts on .050(1.27\_ centers in a contact density identical to the standard MICRO-D connector series, but with these additional features:

¥ Aluminum shells to provide greater strength, prevent chipping, cracking or breaking, offer electromagnetic (EMI) and RFI shielding.

¥ Silicone elastomer compression interfacial seal to provide a moisture and humidity seal between each contact and between contacts and shell.

## How to Order

MIL-C-83513 ordering information- pages 240 and 241



### SERIES

MDM (size 9-100): Liquid Crystal Ploymer (LCP)  
MDM (Combo Layout): Diallyl Phthalate insulator  
Material

### CONTACT ARRANGEMENTS

9-15-21-25-31-37-51-100 (standard)  
7C2, 24C42 (coaxial) } or combination of  
7P2, 24P4 (power) } coax and power

### CONTACT TYPE

P - Pin  
S - Socket

### TERMINATION TYPE

H - Harness-insulated wire.  
L - Solid-uninsulated wire.  
S - Solder pot to accept #26 AWG MAX.  
harness wire. (Not available with power  
contact arrangements.)

### TERMINATION CODE\*

(H) 001 - 18", 7/34 strand, #26 AWG,  
MIL-W-16878/4, Type E Teflon,  
yellow.  
(H) 003 - 18", 7/34 strand, #26 AWG,  
MIL-W-16878/4, Type E Teflon,  
color coded to MIL-STD-681  
System I.  
(L) 1 - 1/2" uninsulated solid #25  
AWG gold plated copper.  
(L) 2 - 1" uninsulated solid #25 AWG  
gold plated copper.

### HARDWARE

M - Military specification hardware, see  
page 237.  
P - Jackpost  
K - Jackscrew-standard  
L - Jackscrew-low profile

F - Float mount

B - No hardware standard  
.091 (2.31) dia. hole for sizes 9-51;  
.120 (3.05) dia. hole for size 100.  
A - .125 (3.18) dia. mounting holes fo  
sizes 9-51;  
.166 (4.22) dia. hole for size 100.  
B1 - .1475 (3.75) dia. hole for size 100  
(Per MIL-C-83513)

### SHELL FINISH MOD CODES\*\*

No  
Number - Standard Cadmium/yellow chromate  
A174 - Electroless nickel  
A172 - Gold over nickel  
A141 - Irridite/alodine  
A30 - Black anodize

\*See Termination Codes page 233 for additional length  
Modification codes.

\*\*For other modifications not listed, consult the factory.

## Performance and Material Specifications

### STANDARD MATERIALS AND FINISHES

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| Shell                   | - Aluminum alloy per QQ-A-200/8<br>(6061-T6), yellow chromate/cadmium<br>per QQ-P-416, Type II, class 3. |
| Insulator               | - MIL-M-24519, Type GLCP-30F<br>Glass-filled diallyl phthalate per<br>MIL-M-14, Type SDGF                |
| Contacts                | - Copper alloy, gold plate                                                                               |
| Mounting Hardware       | - 300 Series stainless steel, passivate                                                                  |
| Kit, Jackpost (3) items | - 300 Series stainless steel, passivate                                                                  |
| Washer                  | - 400 Series stainless steel, passivate                                                                  |
| Standard Epoxy          | - Hysol EE4198 with HD3561 hardener,<br>color green or EE4215 with HD3561,<br>color black                |

### MECHANICAL FEATURES

|                     |                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------|
| Coupling            | - Friction/jackscrews                                                                                           |
| Polarization        | - Keystone-shaped shells                                                                                        |
| Contact Spacing     | - .050 (1.27)                                                                                                   |
| Centers             |                                                                                                                 |
| Shell Styles        | - Plug and receptacle                                                                                           |
| No. of Contacts     | - 9 thru 100 standard;<br>5 signal/2 coaxial;<br>5 signal/2 power.<br>20 signal/4 coaxial;<br>20 signal/4 power |
| Coaxial Cable       | - RG - 178/U                                                                                                    |
| Wire Size           | - #24 thru #32 AWG                                                                                              |
| Contact Termination | - Multiple indent crimp                                                                                         |

### ELECTRICAL DATA - page 231

## Standard Wire Termination Codes

## Cannon Modification Code (Not MS)

The following termination codes are listed for your information. For lengths not shown, consult factory for proper modification code. All wire lengths are minimum.

## Harness TYPE (H)

#26 AWG per MIL-W-16878/4, 7/34 strand, type E Teflon, stranded.

| Length       | All Yellow | Color Coded* |
|--------------|------------|--------------|
| 3 (76.2)     | H020       | H027         |
| 6 (152.4)    | H019       | H016         |
| 8 (203.2)    | H026       | H034         |
| 10 (254.0)   | H029       | H025         |
| 12 (304.8)   | H028       | H002         |
| 18 (457.2)   | H001       | H003         |
| 20 (508.0)   | H038       | H023         |
| 24 (609.6)   | H009       | H004         |
| 30 (762.0)   | H010       | H005         |
| 36 (914.4)   | H011       | H006         |
| 48 (1219.2)  | H013       | H048         |
| 72 (1828.8)  | H017       | H046         |
| 120 (3048.0) | H042       | H041         |

\* Cavity #1 black

## Solid Uninsulated Type (L)

#25 AWG gold plated copper

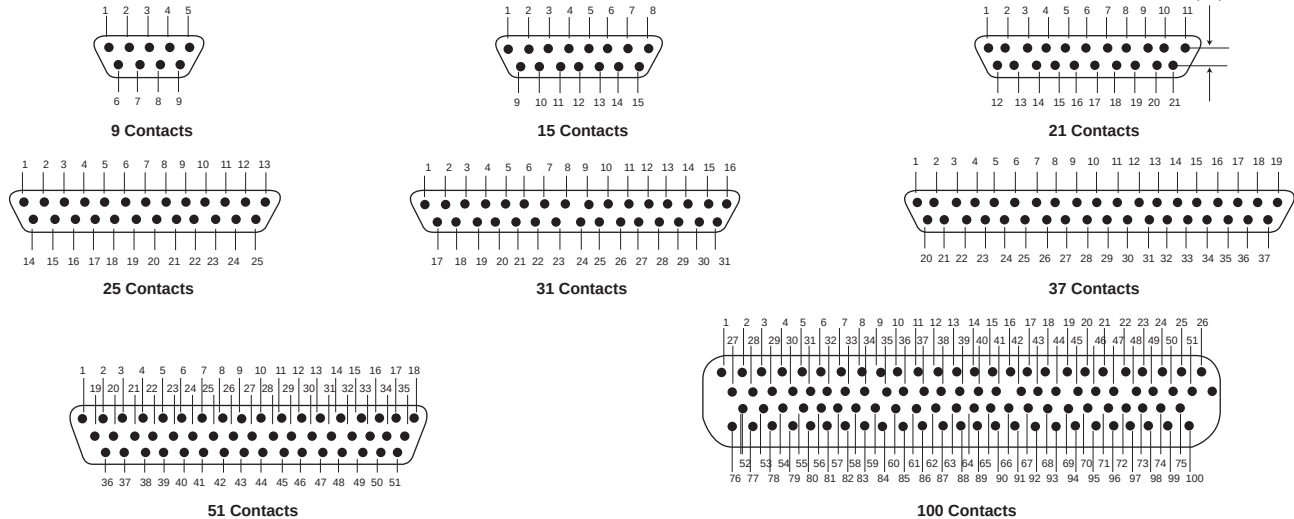
| Termination Code | Length        |
|------------------|---------------|
| L61              | .125 (3.18)   |
| L56              | .150 (3.81)   |
| L57              | .190 (4.83)   |
| L39              | .250 (6.35)   |
| L58              | .375 (9.52)   |
| L1               | .500 (12.70)  |
| L14              | .750 (19.05)  |
| L2               | 1.000 (25.40) |
| L7               | 1.500 (38.10) |
| L6               | 2.000 (50.80) |
| L16              | 2.500 (63.50) |
| L10              | 3.000 (76.20) |

Millimeters are in parentheses.

## Contact Arrangements

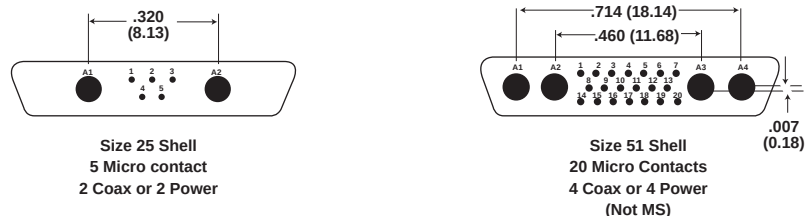
(Face View of Pin Insert - Use Reverse Order for Socket Side)

## Standard



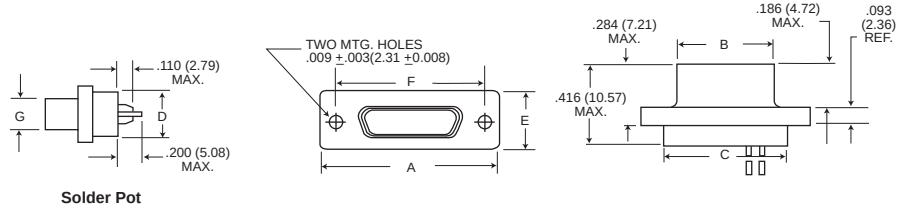
Contact identification numbers are for reference only and do not appear on insulator or connector body.

## Coaxial



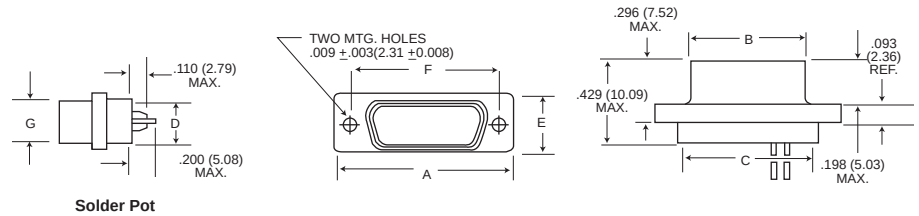
## Shell Dimensions (Conforms to MIL-C-83513)

## Plug



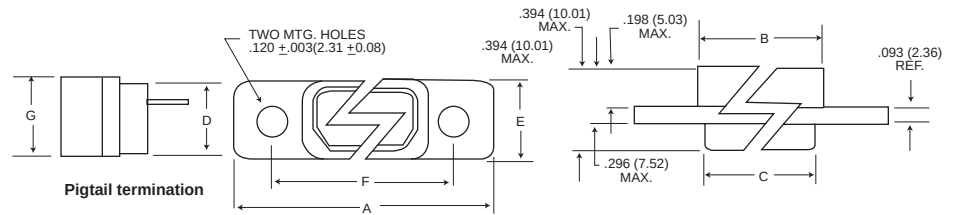
Solder Pot

## Receptacle



Solder Pot

## Receptacle (MDM-100 only)



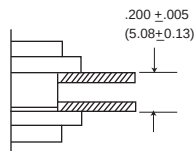
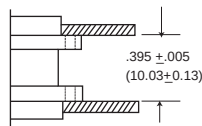
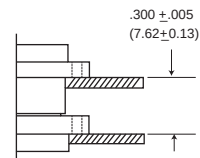
Pigtail termination

| Part Number<br>By Shell Size | A<br>Max.     | B<br>Max.     | C<br>Max.     | D<br>Max.   | E<br>Max.    | F<br>±.005<br>(0.13) | G<br>Max.    | Average Weights**<br>oz. (gm.) ±5% |
|------------------------------|---------------|---------------|---------------|-------------|--------------|----------------------|--------------|------------------------------------|
| MDM-9P*                      | .785 (19.94)  | .334 (8.48)   | .400 (10.16)  | .270 (6.86) | .308 (7.82)  | .565 (14.35)         | .185 (4.70)  | .063 (1.79)                        |
| MDM-9S*                      | .785 (19.94)  | .402 (10.21)  | .400 (10.16)  | .270 (6.86) | .308 (7.82)  | .565 (14.35)         | .253 (6.43)  | .063 (1.79)                        |
| MDM-15P*                     | .935 (23.75)  | .484 (12.29)  | .550 (13.97)  | .270 (6.86) | .308 (7.82)  | .715 (18.16)         | .185 (4.70)  | .084 (2.39)                        |
| MDM-15S*                     | .935 (23.75)  | .552 (13.97)  | .550 (13.97)  | .270 (6.86) | .308 (7.82)  | .715 (18.16)         | .253 (6.43)  | .083 (2.37)                        |
| MDM-21P*                     | 1.085 (27.56) | .634 (16.10)  | .700 (17.78)  | .270 (6.86) | .308 (7.82)  | .865 (21.97)         | .185 (4.70)  | .105 (2.99)                        |
| MDM-21P*                     | 1.085 (27.56) | .702 (17.83)  | .700 (17.78)  | .270 (6.86) | .308 (7.82)  | .865 (21.97)         | .253 (6.43)  | .104 (2.97)                        |
| MDM-25P*                     | 1.185 (30.10) | .734 (18.64)  | .800 (20.32)  | .270 (6.86) | .308 (7.82)  | .965 (24.51)         | .185 (4.70)  | .119 (3.39)                        |
| MDM-25S*                     | 1.185 (30.10) | .802 (20.37)  | .800 (20.32)  | .270 (6.86) | .308 (7.82)  | .965 (24.51)         | .253 (6.43)  | .118 (3.36)                        |
| MDM-31P*                     | 1.335 (33.91) | .884 (22.45)  | .950 (24.13)  | .270 (6.86) | .308 (7.82)  | 1.115 (28.32)        | .185 (4.70)  | .140 (3.99)                        |
| MDM-31S*                     | 1.335 (33.91) | .952 (24.18)  | .950 (24.13)  | .270 (6.86) | .308 (7.82)  | 1.115 (28.32)        | .253 (6.43)  | .139 (3.96)                        |
| MDM-37P*                     | 1.485 (37.72) | 1.034 (26.26) | 1.100 (27.94) | .270 (6.86) | .308 (7.82)  | 1.265 (32.13)        | .185 (4.70)  | .161 (4.59)                        |
| MDM-37S*                     | 1.485 (37.72) | 1.102 (27.99) | 1.100 (27.94) | .270 (6.86) | .308 (7.82)  | 1.265 (32.13)        | .253 (6.43)  | .160 (4.56)                        |
| MDM-51P*                     | 1.435 (36.45) | .984 (24.99)  | 1.050 (26.67) | .310 (7.87) | .351 (8.92)  | 1.215 (30.86)        | .228 (5.79)  | .193 (5.50)                        |
| MDM-51S*                     | 1.435 (36.45) | 1.052 (26.72) | 1.050 (26.67) | .310 (7.87) | .351 (8.92)  | 1.215 (30.86)        | .296 (7.52)  | .188 (5.35)                        |
| MDM-100P*                    | 2.170 (55.12) | 1.384 (35.15) | 1.442 (36.63) | .360 (9.14) | .394 (10.01) | 1.800 (45.72)        | .271 (6.88)  | .500 (14.3)                        |
| MDM-100S*                    | 2.170 (55.12) | 1.508 (38.10) | 1.442 (36.63) | .360 (9.14) | .394 (10.01) | 1.800 (45.72)        | .394 (10.01) | 1.040 (29.5)                       |

\*Add lead type and length; see How To Order.

\*\*\*Weight given is 1/2", uninsulated, solid, #25 AWG gold plated copper pigtails.

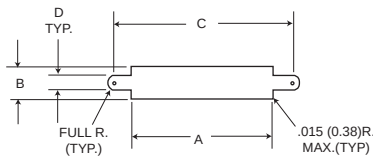
## Panel Mounting Dimensions (Sizes 9 - 100)

Plug and Receptacle  
Rear MountedPlug and Receptacle  
Front MountedPlug Front Mounted  
Receptacle Rear Mounted

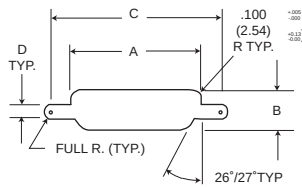
## Panel Cutouts

NOTE: See page 237 for rear panel mounting configuration.

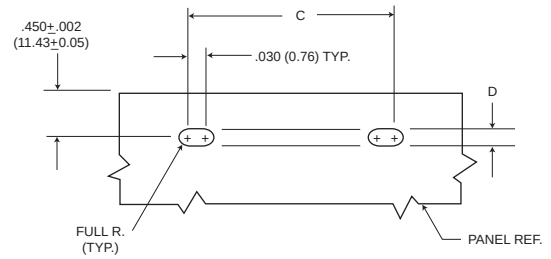
### Shell Sizes 9 thru 11



**Figure 1**  
Front Mounting

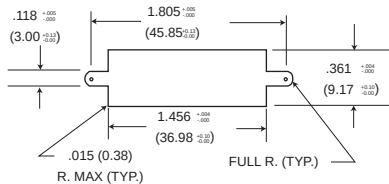


**Figure 2**  
Rear Mounting

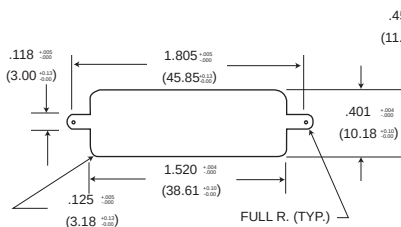


**Figure 3**  
Edgeboard Mounting

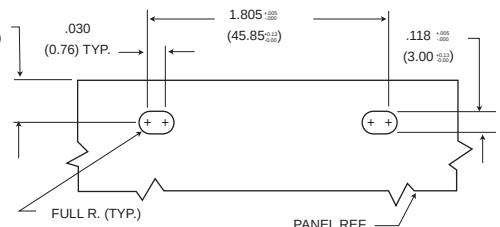
### Shell Size 100



**Figure 1**  
Front Mounting



**Figure 2**  
Rear Mounting



**Figure 3**  
Edgeboard Mounting

### For 9-51 Shell Sizes

#### NOTES:

1. Front mounting (figure 1) and rear mounting (figure 2) accommodates #2-56 screws
2. Front mounting is preferred. However, when rear mounting is necessary, use figure 2 dimensions when jackscrews are used. See detail on page 24 when jackpost are used.
3. Edgeboard mounting bracket (figure 3) uses #2-56 screws. Dimension .450±.002 (11.43±0.05) locates the MDM receptacle flush with the end of the board.

### For 100 Shell Size

#### NOTES:

1. Front mounting (figure 1) and rear mounting (figure 2) accommodates #4-40 screws.
2. Edgeboard mounting bracket (figure 3) uses #4-40 screws. Dimension .450±.002 (11.43±0.05) locates the MDM receptacle flush with the end of the board.
3. Front mounting is preferred. However, when rear mounting is necessary, use figure 2 dimensions.

| Shell Size | Cutout Figure | A<br>+.004 (0.10)<br>-.000 (0.00) | B<br>+.004 (0.10)<br>-.000 (0.00) | C<br>+.005 (0.13)<br>-.000 (0.00) | D<br>+.005 (0.13)<br>-.000 (0.00) |
|------------|---------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 9          | 1             | .408 (10.36)                      | .271 (6.88)                       | .570 (14.48)                      | .089 (2.26)                       |
|            | 2             | .401 (10.19)                      | .252 (6.40)                       | .570 (14.48)                      | .089 (2.26)                       |
|            | 3             | -                                 | -                                 | .570 (14.48)                      | .089 (2.26)                       |
| 15         | 1             | .558 (14.17)                      | .271 (6.88)                       | .720 (18.29)                      | .089 (2.26)                       |
|            | 2             | .551 (14.00)                      | .252 (6.40)                       | .720 (18.29)                      | .089 (2.26)                       |
|            | 3             | -                                 | -                                 | .720 (18.29)                      | .089 (2.26)                       |
| 21         | 1             | .708 (17.98)                      | .271 (6.88)                       | .870 (22.10)                      | .089 (2.26)                       |
|            | 2             | .701 (17.81)                      | .252 (6.40)                       | .870 (22.10)                      | .089 (2.26)                       |
|            | 3             | -                                 | -                                 | .870 (22.10)                      | .089 (2.26)                       |
| 25         | 1             | .808 (20.52)                      | .271 (6.88)                       | .970 (24.64)                      | .089 (2.26)                       |
|            | 2             | .801 (20.34)                      | .252 (6.40)                       | .970 (24.64)                      | .089 (2.26)                       |
|            | 3             | -                                 | -                                 | .970 (24.64)                      | .089 (2.26)                       |
| 31         | 1             | .958 (24.33)                      | .271 (6.88)                       | 1.120 (28.45)                     | .089 (2.26)                       |
|            | 2             | .951 (24.16)                      | .252 (6.40)                       | 1.120 (28.45)                     | .089 (2.26)                       |
|            | 3             | -                                 | -                                 | 1.120 (28.48)                     | .089 (2.26)                       |
| 37         | 1             | 1.108 (28.14)                     | .271 (6.88)                       | 1.270 (32.26)                     | .089 (2.26)                       |
|            | 2             | 1.101 (27.97)                     | .252 (6.40)                       | 1.270 (32.26)                     | .089 (2.26)                       |
|            | 3             | -                                 | -                                 | 1.270 (32.26)                     | .089 (2.26)                       |
| 51         | 1             | 1.058 (26.87)                     | .315 (8.00)                       | 1.220 (30.99)                     | .089 (2.26)                       |
|            | 2             | 1.051 (26.70)                     | .295 (7.49)                       | 1.220 (30.99)                     | .089 (2.26)                       |
|            | 3             | -                                 | -                                 | 1.220 (30.99)                     | .089 (2.26)                       |

## Mounting Hardware Views (for sizes 9-51)

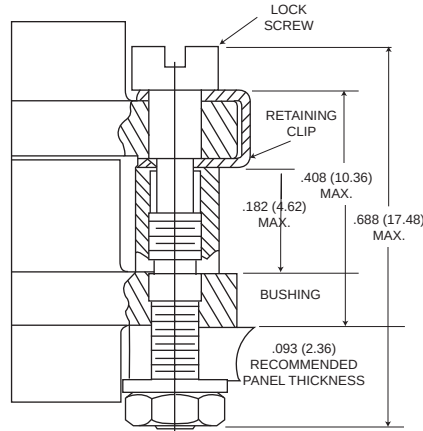
This hardware supplied unassembled.



Screw Lock Assembly

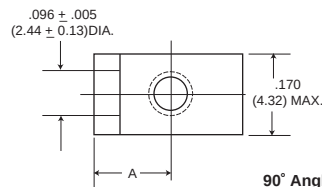


90° Angle Mounting Bracket

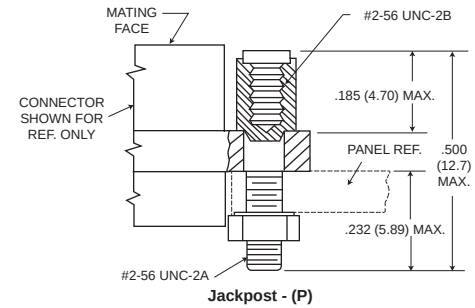


Screw Lock Assembly\*

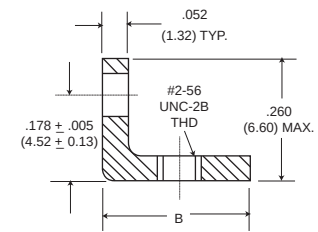
\*NOTE Torque value is 2.5 in/lbs max.



90° Angle Mounting Bracket



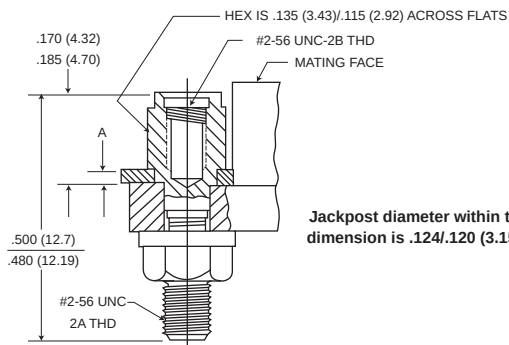
Jackpost - (P)



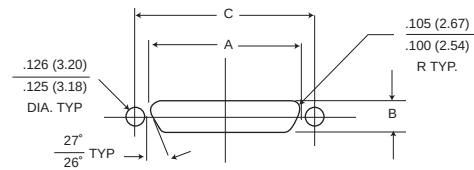
| Description                                           | Part Number  | A<br>+.005 (+0.13) | B<br>Max.   |
|-------------------------------------------------------|--------------|--------------------|-------------|
| Screw Lock Assembly                                   | 322-9500-000 |                    | N/A         |
| Jackpost kit                                          | 320-9505-000 |                    | N/A         |
| Mounting Bracket 90° MDM<br>for 9 thru 37 Shell Sizes | 015-9516-002 | .147 (3.73)        | .308 (7.82) |
| Mounting Bracket 90° MDM<br>fo 51 Shell Size          | 015-9516-003 | .169 (4.29)        | .350 (8.89) |

NOTES: Screw lock assembly (322-9500-000) can be used for front mounting only. Jackpot kit (320-9505-000) consists of two assemblies, shipped unassembled.

## Jackpost Bushing (for rear panel mounting-for sizes 9-51)



Jackpost diameter within the "A" dimension is .124/.120 (3.15/3.05).



## Plug and Rectacle Dimensions

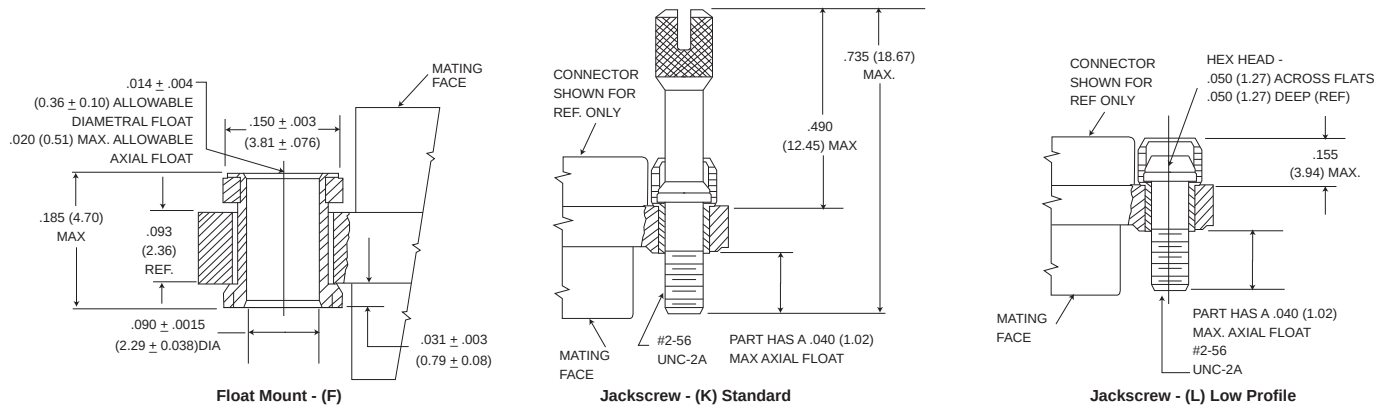
| Shell Size | A<br>+.004 (0.10)<br>-.000 (0.00) | B<br>+.004 (0.10)<br>-.000 (0.00) | C<br>+.005 (0.13) |
|------------|-----------------------------------|-----------------------------------|-------------------|
| 9          | .401 (10.19)                      | .252 (6.40)                       | .565 (14.35)      |
| 15         | .551 (14.00)                      | .252 (6.40)                       | .715 (18.16)      |
| 21         | .701 (17.81)                      | .252 (6.40)                       | .865 (21.97)      |
| 25         | .801 (20.34)                      | .252 (6.40)                       | .965 (24.51)      |
| 31         | .951 (24.16)                      | .252 (6.40)                       | 1.115 (28.34)     |
| 37         | 1.101 (27.97)                     | .252 (6.40)                       | 1.265 (32.13)     |
| 51         | 1.051 (26.70)                     | .295 (7.49)                       | 1.215 (30.86)     |

| Panel A Thickness | A<br>+.005 (0.13)<br>-.000 (0.00) | Jackpost Kit Number* |
|-------------------|-----------------------------------|----------------------|
| 3/32 (2.4)        | .087 (2.21)                       | 320-9505-007         |
| 1/16 (1.6)        | .056 (1.42)                       | 320-9505-006         |
| 3/64 (1.2)        | .042 (1.07)                       | 320-9505-005         |
| 1/32 (0.8)        | .025 (0.64)                       | 320-9505-004         |

\*A kit consists of 2 jackpost, 2 nuts, 2 washers.

## Mounting Hardware Views (sizes 9-51)

This hardware is factory installed.



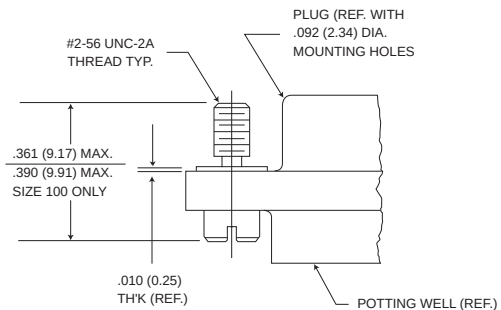
Shown here is a cutaway view of the float mount for the MD connector. The basic shell dimensions are the same for the float mount and the screw mounting hole configurations. View shown is for standard float mount front panel mounting. Reverse mounting is available on request.

\* NOTE: Torque vales are as follows:  
Low Profile Jackscrew (L)-2.5 in/lbs  
Standard Jackscrew (K)-2.5 in/lbs

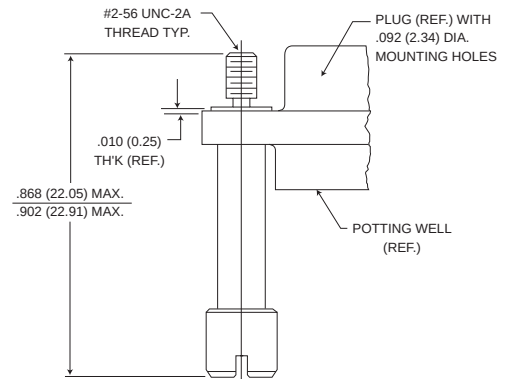
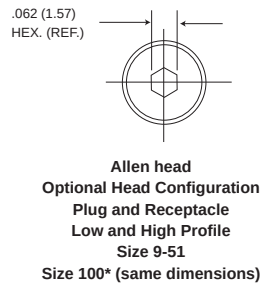
Repair kit available-consult factory.

## Mounting Hardware to Military Specification (for sizes 9 - 100) per MIL-C-83513/5

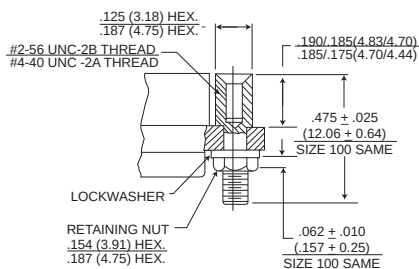
This hardware supplied in kits unassembled (2 pieces of each item).



**Figure 1. Jackscrew - Low profile  
Slotted Head  
Size 9-51  
Size 100\***



**Figure 2. Jackscrew - High Profile  
Slotted Head  
Size 9-51  
Size 100\***



**Figure 3. Jackpost Assembly  
Size 9-51  
Size 100\***

To order hardware kits separately, order either by M83513/5-\*\* or by 320-950X-XXX.

| Description                                        | Size 9-51            | ** | Size 100*            | ** |
|----------------------------------------------------|----------------------|----|----------------------|----|
|                                                    | Mod Code Part Number |    | Mod Code Part Number |    |
| Slotted Head Jackscrew Assy Low Profile (Figure 1) | M5 320-9508-025      | 05 | M15 320-9508-021     | 15 |
| Slotted Head Jackscrew Assy Low Profile (Figure 2) | M6 320-9508-027      | 06 | M16 320-9508-023     | 16 |
| Allen Head Jackscrew Assy Low Profile (Figure 1)   | M2 320-9508-026      | 02 | M12 320-9508-022     | 12 |
| Allen Head Jackscrew Assy High Profile (Figure 2)  | M3 320-9508-028      | 03 | M13 320-9508-024     | 13 |
| Jackpost Assy (Figure 3)                           | M7 320-9505-033      | 07 | M17 320-9505-030     | 17 |

\*Size 100 requires B1 size mounting holes.

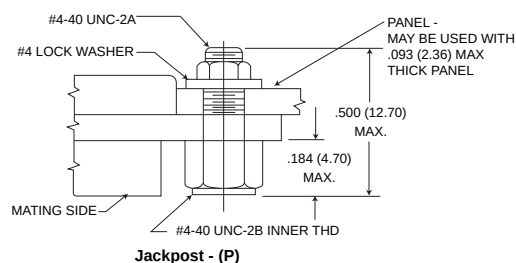


## Mounting Hardware Views (for size 100)

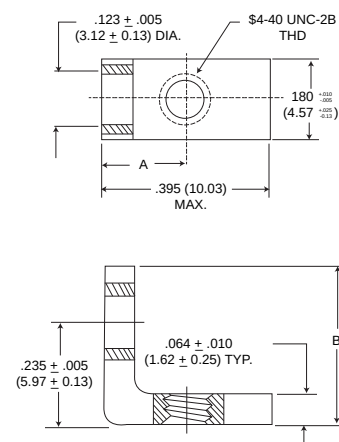
This hardware supplied unassembled.



90° Angle Mounting Bracket



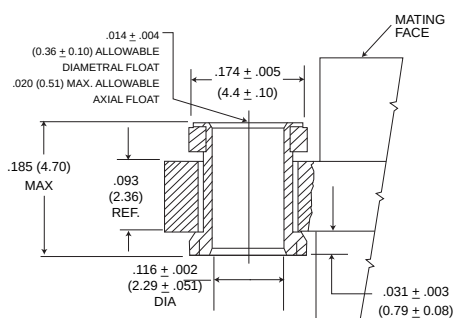
Jackpost - (P)



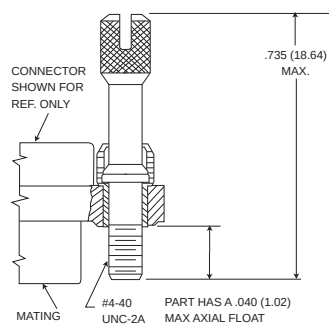
90° Angle Mounting Bracket

| Description              | Part Number  | A<br>± .005 (0.13) | B<br>Max.   |
|--------------------------|--------------|--------------------|-------------|
| Jackpost kit             | 320-9505-015 | N/A                |             |
| Mounting Bracket 90° MDM | 015-9528-000 | .191 (4.85)        | .370 (9.40) |

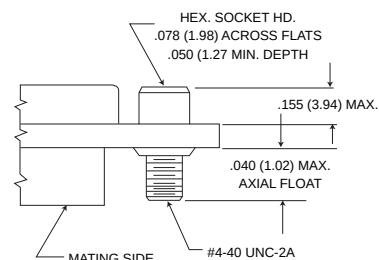
This hardware is factory installed.



Float Mount - (F) Std.



Jackscrew - (K) Standard



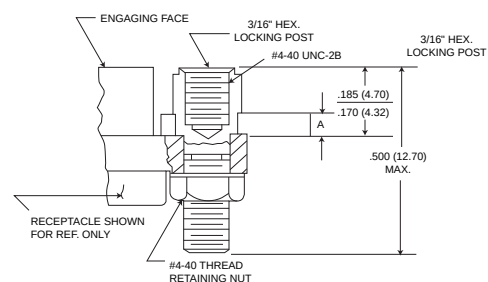
Jackscrew - (L) (Low Profile)

\*NOTE: Torque vales are as follows:  
Low Profile Jackscrew (L)-4.0 in/lbs  
Standard Jackscrew (K)-4.0 in/lbs

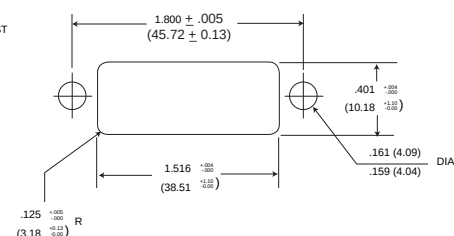
## Jackpost Bushing (for Rear Panel Mounting)

| Panel Thickness | A<br>+ .005 (0.13)<br>- .000 (0.00) | Jackpost Kit Number* |
|-----------------|-------------------------------------|----------------------|
| 3/32 (2.4)      | .087 (2.21)                         | 320-9505-013         |
| 1/16 (1.6)      | .058 (1.42)                         | 320-9505-012         |
| 1/32 (0.8)      | .025 (0.64)                         | 320-9505-010         |
| 3/64 (1.2)      | .042 (1.07)                         | 320-9505-011         |

\*2 jackposts, 2 nuts, 2 washers



Dimensions for Rear Panel Mounting



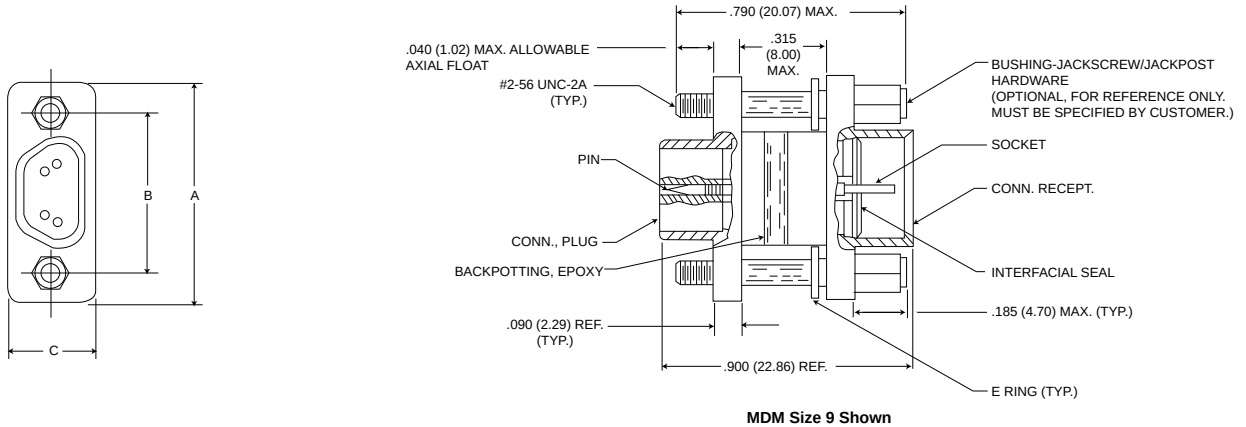


## Connector Saver

Save wear and tear on your equipment and systems connectors by using the "Connector Saver".

The multi-matings and unmatings experienced by most connectors during testing and final check out can be eliminated.

Simply mate the "Connectors Saver" to your unit and use the opposite side for your testing interface... less wear, less tear, less chance of damage. It is available in all seven standard MDM layouts. Mating hardware is available and can be ordered either separately or included with the connector saver.



| Size | A174 Electroless Nickel |              | Cadmium Plated |               | *Hardware Kits  | A<br>Max.     | B<br>± .005 (0.13) | C<br>Max.    |
|------|-------------------------|--------------|----------------|---------------|-----------------|---------------|--------------------|--------------|
|      | With Hardware           | W/O Hardware | With Hardware  | W/O Hardware  |                 |               |                    |              |
| 9    | MDM98479-86             | MDM98479-18  | MDM98479-78    | MDM-97294-371 | 320-9505-014**  | .785 (19.94)  | .565 (14.35)       | .308 (7.82)  |
| 15   | MDM98479-87             | MDM98479-19  | MDM98479-79    | MDM-97294-372 | 320-9505-014**  | .935 (23.75)  | .715 (18.16)       | .308 (7.82)  |
| 21   | MDM98479-88             | MDM98479-20  | MDM98479-80    | MDM-97294-373 | 320-9505-014**  | 1.085 (27.56) | .865 (21.97)       | .308 (7.82)  |
| 25   | MDM98479-89             | MDM98479-21  | MDM98479-81    | MDM-97294-374 | 320-9505-014**  | 1.185 (30.10) | .965 (24.51)       | .308 (7.82)  |
| 31   | MDM98479-90             | MDM98479-14  | MDM98479-82    | MDM-97294-375 | 320-9505-014**  | 1.335 (33.91) | 1.115 (28.32)      | .308 (7.82)  |
| 37   | MDM98479-91             | MDM98479-15  | MDM98479-83    | MDM-97294-376 | 320-9505-014**  | 1.485 (37.72) | 1.265 (32.13)      | .308 (7.82)  |
| 51   | MDM98479-92             | MDM98479-16  | MDM98479-84    | MDM-97294-377 | 320-9505-014**  | 1.435 (36.45) | 1.215 (30.86)      | .351 (8.91)  |
| 100  | MDM98479-93             | MDM98479-17  | MDM98479-85    | MDM-97294-717 | 320-9508-014*** | 2.170 (55.12) | 1.800 (45.72)      | .394 (10.01) |

\* Kit contains 2 bushings-jackpost/jackscrew and 2 E rings.

\*\* Size 9-51-#2-56 UNC2B Thread

\*\*\* Size 100-#4-40 UNC2B Thread