

# 3M™ I/O Connector Mounting Options and Hardware

## Hardware Guide

Date Modified: April 24, 2012

Mounting Hardware Applications - Table 1

| Part Number             | Type              | Mini D Ribbon (MDR) Conn.'s | D Sub Conn.'s | D Ribbon Conn.'s | Shrunk D Ribbon (SDR) Conn.'s | Sheet # | RIA Code          |
|-------------------------|-------------------|-----------------------------|---------------|------------------|-------------------------------|---------|-------------------|
| 3341-1L <sup>2</sup>    | Jack Socket Screw |                             | X             | X                |                               | 2 of 9  | RIA E5 & C3 apply |
| 3341-1S <sup>2</sup>    | Jack Socket Screw |                             | X             | X                |                               |         |                   |
| 3341-2                  | Jack Socket Screw |                             |               | X                |                               |         |                   |
| 3341-3                  | Jack Socket Screw |                             |               | X                |                               |         |                   |
| 3341-4 <sup>2</sup>     | Jack Socket Screw |                             | X             | X                |                               |         |                   |
| 3341-10                 | Jack Socket Screw | X                           |               |                  |                               | 3 of 9  |                   |
| 3341-13                 | Jack Socket Screw | X                           |               |                  |                               |         |                   |
| 3341-16                 | Jack Socket Screw | X                           |               |                  |                               |         |                   |
| 3341-17                 | Jack Socket Screw | X                           |               |                  |                               |         |                   |
| 3341-25                 | Jack Socket Screw | X                           |               |                  |                               |         |                   |
| 3341-30                 | Jack Socket Screw | X                           |               |                  |                               | 4 of 9  |                   |
| 3341-31                 | Jack Socket Screw | X                           |               |                  |                               |         |                   |
| 3341-32                 | Jack Socket Screw | X                           |               |                  |                               |         |                   |
| 3341-35                 | Jack Socket Screw | X                           |               |                  |                               |         |                   |
| 3341-36                 | Jack Socket Screw | X                           |               |                  |                               |         |                   |
| 3342-1 <sup>2</sup>     | Jack Screw Kits   |                             | X             |                  |                               | 5 of 9  |                   |
| 3342-2 <sup>2</sup>     | Jack Screw Kits   |                             | X             |                  |                               |         |                   |
| 3342-3 <sup>2</sup>     | Jack Screw Kits   |                             | X             | X                |                               |         |                   |
| 3342-4 <sup>2</sup>     | Jack Screw Kits   |                             | X             | X                |                               |         |                   |
| 3344-3                  | Board Lock Screw  | X                           |               |                  |                               | 6 of 9  |                   |
| 3344-4                  | Board Lock Screw  | X                           |               |                  |                               |         |                   |
| 3344-26                 | Panel Mount Screw | X                           |               |                  |                               |         |                   |
| 3344-38                 | Panel Mount Screw | X                           |               |                  |                               |         |                   |
| 3344-44                 | Panel Mount Screw | X                           |               |                  |                               |         |                   |
| 3344-45                 | Panel Mount Screw | X                           |               |                  |                               | 7 of 9  |                   |
| 3475-1                  | Bail Mount Kits   |                             |               | X                |                               |         |                   |
| 3475-4                  | Bail Mount Kits   |                             |               | X                |                               |         |                   |
| 3475-5                  | Bail Mount Kits   |                             |               | X                |                               | 8 of 9  |                   |
| 12600-S-08              | Jack Socket Screw |                             |               |                  | X                             |         |                   |
| 12600-S-10              | Jack Socket Screw |                             |               |                  | X                             |         |                   |
| 12600-S-12              | Jack Socket Screw |                             |               |                  | X                             |         |                   |
| 3344-46                 | Board Lock Screw  |                             |               |                  | X                             | 9 of 9  |                   |
| Mounting hardware Guide |                   |                             | X             |                  |                               |         |                   |

-See sheet 7 of 9 for D Ribbon & Plastic Connector accessories.-

Notes:

1. Use Table 1 as a guide for selecting the correct mounting hardware.
2. See sheet 9 of 9 for selection guide - 9 to 37 and 50 position D Sub connectors.
3. See Regulatory Information Appendix (RIA) for chemical compliance information.

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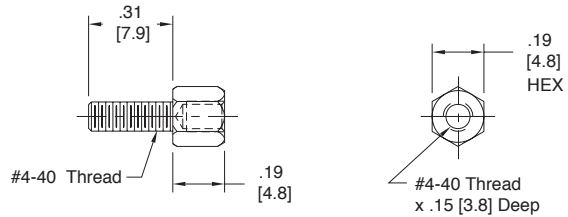
# 3M™ I/O Connector Mounting Options and Hardware

## Jack Socket Screws

### 3M Part Number 3341-1L

Kit Contents:  
2 - Jack Sockets  
4 - Spacers .031 [0.79] Thick  
2 - Lock Washers  
2 - 4-40 Nuts

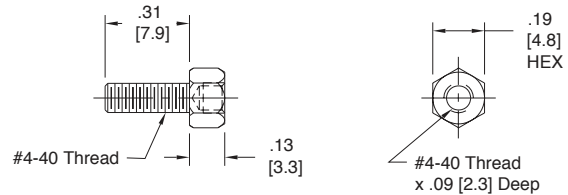
Material: Steel  
Finish: Zinc with Clear Chromate  
Screw / Socket Thread Size: #4-40 / #4-40  
Recommended Max. Torque: 7.0 inch-lbf [0.8 N-m]



### 3M Part Number 3341-1S

Kit Contents:  
2 - Jack Sockets  
8 - Spacers .031 [0.79] Thick  
2 - Lock Washers  
2 - 4-40 Nuts

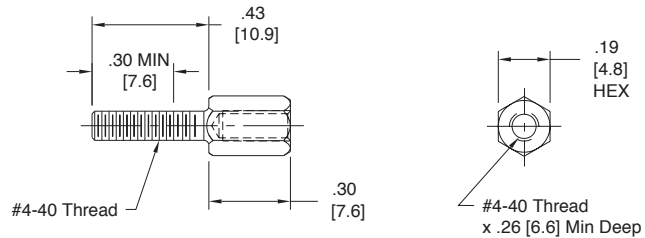
Material: Steel  
Finish: Zinc with Clear Chromate  
Screw / Socket Thread Size: #4-40 / #4-40  
Recommended Max. Torque: 7.0 inch-lbf [0.8 N-m]



### 3M Part Number 3341-2

Kit Contents:  
2 - Jack Sockets  
2 - Lock Washers  
2 - 4-40 Nuts

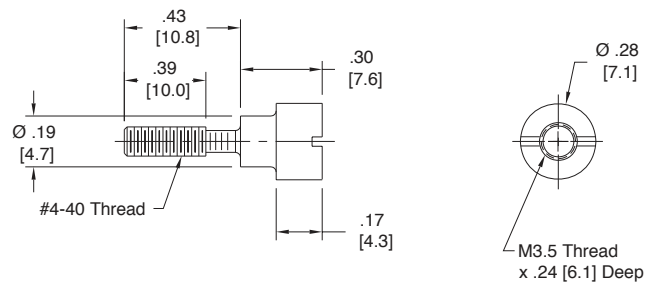
Material: Steel  
Finish: Zinc with Clear Chromate  
Screw / Socket Thread Size: #4-40 / #4-40  
Recommended Max. Torque: 7.0 inch-lbf [0.8 N-m]



### 3M Part Number 3341-3 IEEE-488-Type

Kit Contents:  
2 - Jack Sockets  
4 - Spacers .031 [0.79] Thick  
2 - Lock Washers  
2 - 4-40 Nuts

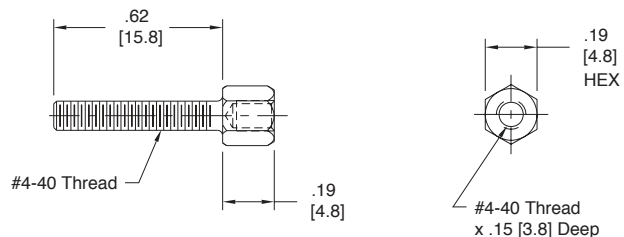
Material: Steel  
Finish: Black Oxide  
Screw / Socket Thread Size: #4-40 / M3.5  
Recommended Max. Torque: 7.0 inch-lbf [0.8 N-m]



### 3M Part Number 3341-4

Kit Contents:  
2 - Jack Sockets  
4 - Spacers .031 [0.79] Thick  
2 - Lock Washers  
2 - 4-40 Nuts

Material: Steel  
Finish: Zinc with Clear Chromate  
Screw / Socket Thread Size: #4-40 / #4-40  
Recommended Max. Torque: 7.0 inch-lbf [0.8 N-m]



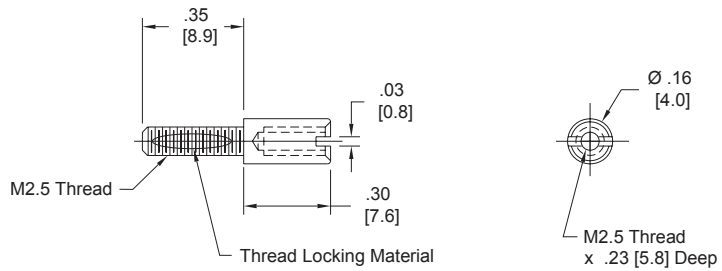
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# 3M™ I/O Connector Mounting Options and Hardware

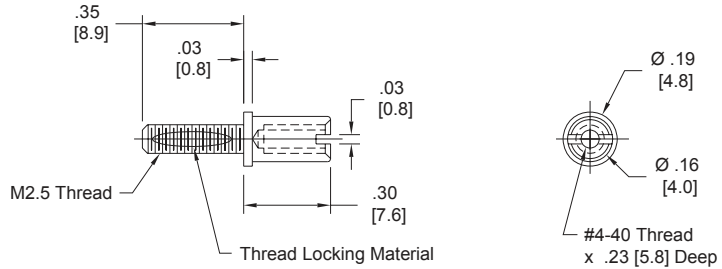
## 3M Part Number 3341-10

Material: Stainless Steel  
Screw / Socket Thread Size: M2.5 / M2.5  
Recommended Max. Torque: 2.5 inch-lbf [0.3 N-m]



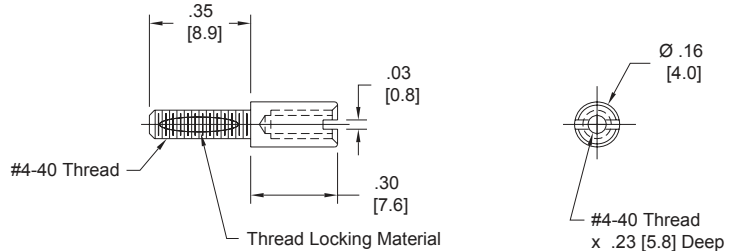
## 3M Part Number 3341-13

Material: Stainless Steel  
Screw / Socket Thread Size: M2.5 / #4-40  
Recommended Max. Torque: 2.5 inch-lbf [0.3 N-m]



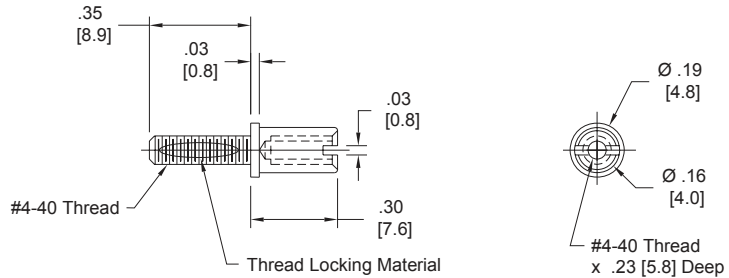
## 3M Part Number 3341-16

Material: Stainless Steel  
Screw / Socket Thread Size: #4-40 / #4-40  
Recommended Max. Torque: 3.5 inch-lbf [0.4 N-m]



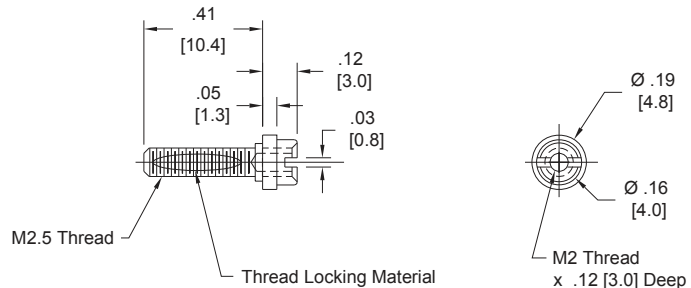
## 3M Part Number 3341-17

Material: Stainless Steel  
Screw / Socket Thread Size: #4-40 / #4-40  
Recommended Max. Torque: 3.5 inch-lbf [0.4 N-m]



## 3M Part Number 3341-25

Material: Stainless Steel  
Screw / Socket Thread Size: M2.5 / M2  
Recommended Max. Torque: 2.5 inch-lbf [0.3 N-m]

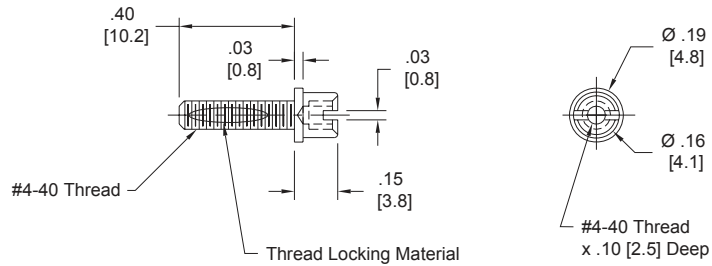


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# 3M™ I/O Connector Mounting Options and Hardware

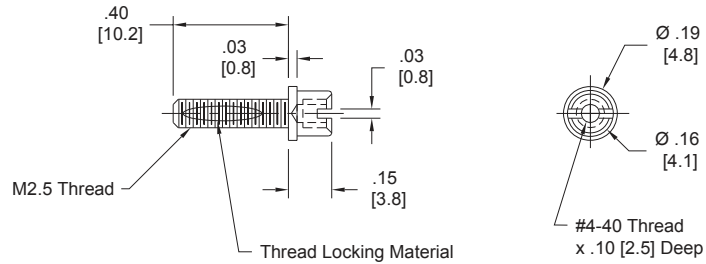
## 3M Part Number 3341-30

Material: Stainless Steel  
Screw / Socket Thread Size: #4-40 / #4-40  
Recommended Max. Torque: 3.5 inch-lbf [0.4 N-m]



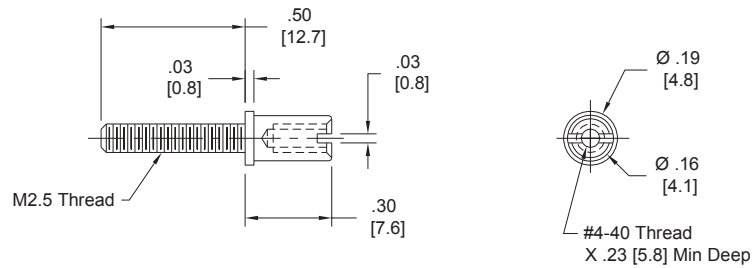
## 3M Part Number 3341-31

Material: Stainless Steel  
Screw / Socket Thread Size: M2.5 / #4-40  
Recommended Max. Torque: 2.5 inch-lbf [0.3 N-m]



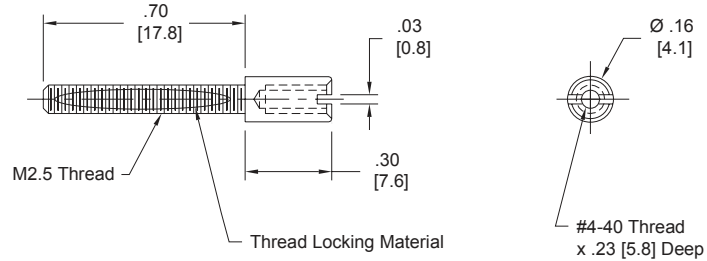
## 3M Part Number 3341-32

Material: Stainless Steel  
Screw / Socket Thread Size: M2.5 / #4-40  
Recommended Max. Torque: 2.5 inch-lbf [0.3 N-m]



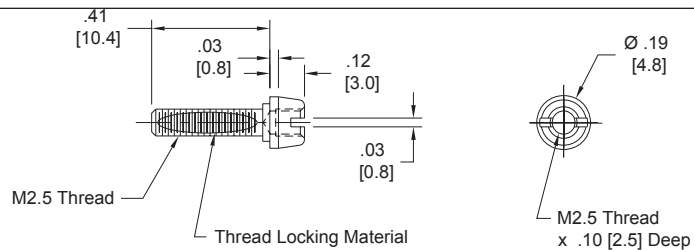
## 3M Part Number 3341-35

Material: Stainless Steel  
Screw / Socket Thread Size: M2.5 / #4-40  
Recommended Max. Torque: 2.5 inch-lbf [0.3 N-m]



## 3M Part Number 3341-36

Material: Stainless Steel  
Screw / Socket Thread Size: M2.5 / M2.5  
Recommended Max. Torque: 2.5 inch-lbf [0.3 N-m]



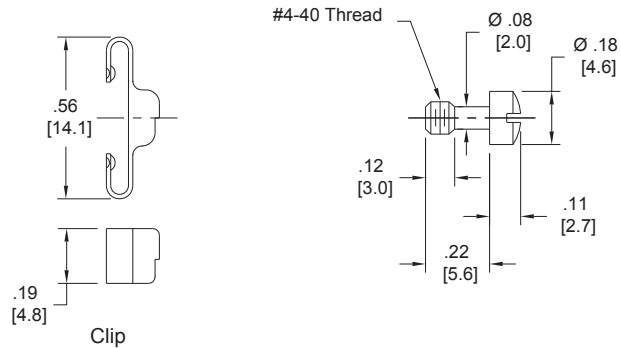
# 3M™ I/O Connector Mounting Options and Hardware

## Jack Screw Kits

### 3M Part Number 3342-1

Kit Contents:  
2 - Clips  
2 - Jack Screws

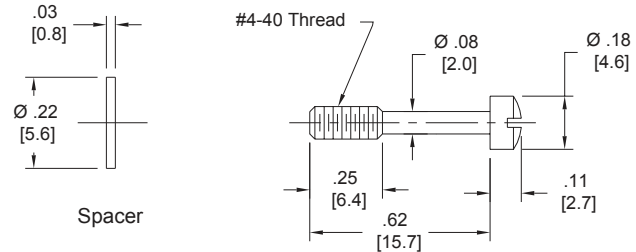
Material: Steel  
Finish: Zinc with Clear Chromate  
Thread size: #4-40  
Recommended Max. Torque: 7.0 inch-lbf [0.8 N-m]



### 3M Part Number 3342-2

Kit Contents:  
2 - Spacers  
2 - Jack Screws

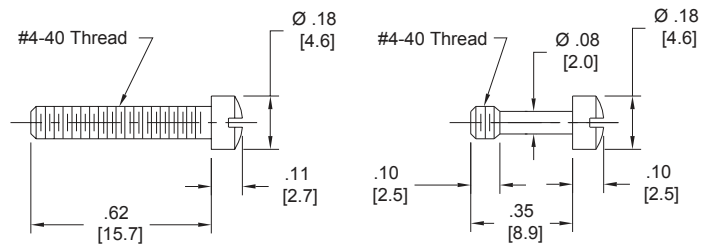
Material: Steel  
Finish: Zinc with Clear Chromate  
Thread size: #4-40  
Recommended Max. Torque: 7.0 inch-lbf [0.8 N-m]



### 3M Part Number 3342-3

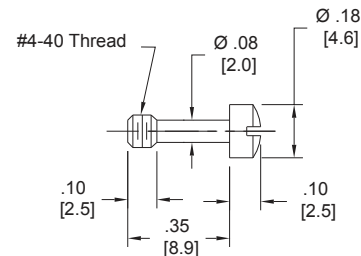
Kit Contents:  
2 - Screws  
2 - Jack Screws

Material: Steel  
Finish: Zinc with Clear Chromate  
Thread size: #4-40  
Recommended Max. Torque: 7.0 inch-lbf [0.8 N-m]



### 3M Part Number 3342-4

Material: Steel  
Finish: Zinc with Clear Chromate  
Thread size: #4-40  
Recommended Max. Torque: 7.0 inch-lbf [0.8 N-m]



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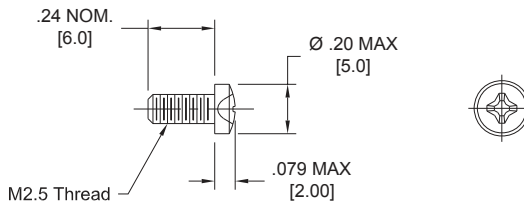
# 3M™ I/O Connector Mounting Options and Hardware

## Board Lock Screws

Use to attach connector to printed circuit board. Not for use for panel mounting.

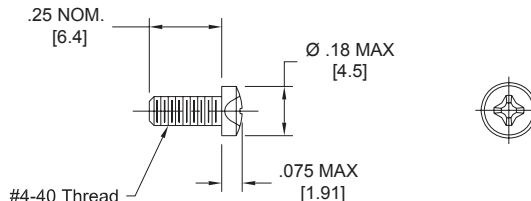
### 3M Part Number 3344-3

Material: Steel  
Finish: Nickel Plated  
Thread size: M2.5  
Recommended Max. Torque: 2.5 inch-lbf [0.3 N-m]



### 3M Part Number 3344-4

Material: Steel  
Finish: Nickel Plated  
Thread size: #4-40  
Recommended Max. Torque: 3.5 inch-lbf [0.4 N-m]

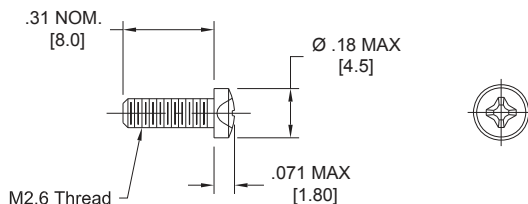


## Panel Mount Screws

Use to attach connector to panel or chassis. Not for use for PCB mounting.

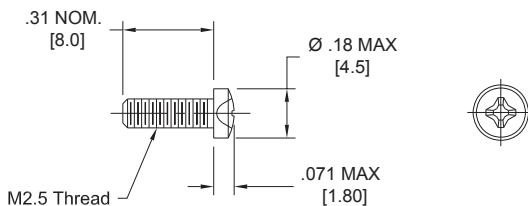
### 3M Part Number 3344-26

Material: Steel  
Finish: Zinc  
Thread size: M2.6  
Recommended Max. Torque: 2.5 inch-lbf [0.3 N-m]



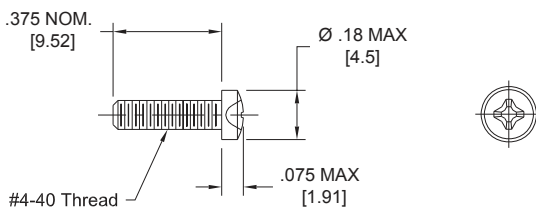
### 3M Part Number 3344-38

Material: Steel  
Finish: Zinc  
Thread size: M2.5  
Recommended Max. Torque: 2.5 inch-lbf [0.3 N-m]



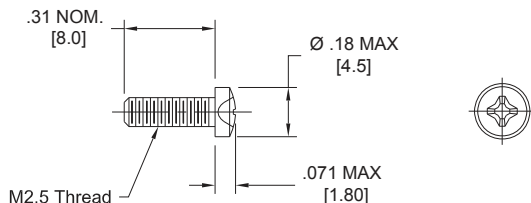
### 3M Part Number 3344-44

Material: Steel  
Finish: Zinc  
Thread size: #4-40  
Recommended Max. Torque: 3.5 inch-lbf [0.4 N-m]



### 3M Part Number 3344-45

Material: Stainless Steel  
Thread size: M2.5  
Recommended Max. Torque: 2.5 inch-lbf [0.3 N-m]

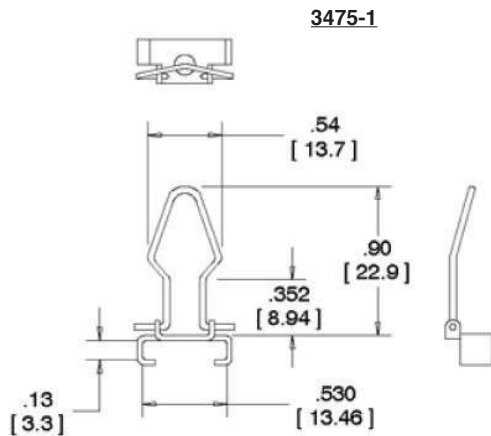


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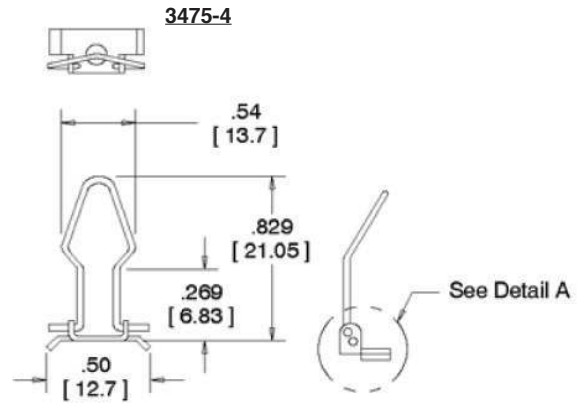


# 3M™ I/O Connector Mounting Options and Hardware

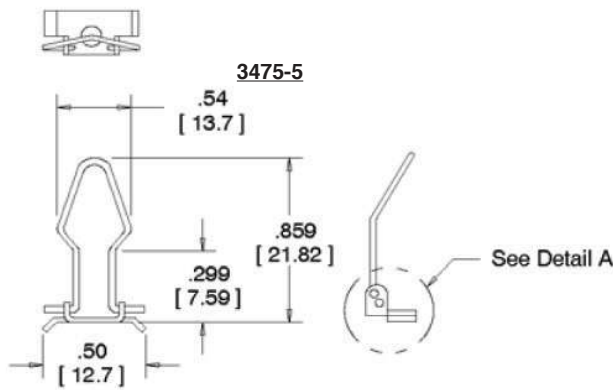
## Bail Mount Kits for D Ribbon Connectors



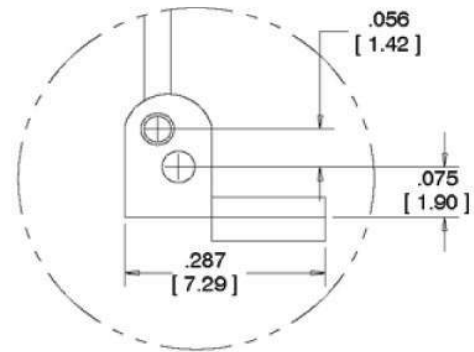
Plastic Connectors  
Mounted to Front of Panel



Plastic & Metal Faced Connectors  
Mounted to Rear of  
.0625, .075, .125 Panels



Plastic & Metal Faced Connectors  
Mounted to Rear of  
.035, .042, .094 Panels



Detail A

| Material   |                    |
|------------|--------------------|
| Bail Assy. | Steel, Zinc plated |
| Screw      | Steel, Zinc plated |
| Nut        | Steel, Zinc plated |
| Washer     | Steel, Zinc plated |

Kits Contain 2 ea.  
Bail Assy.  
Screw - 4-40 x .50. RND HD SLTD  
Nut - #4-40 UNC  
Washer - Lock-split

### D-Ribbon & Plastic Connectors

| Contact Quantity | Mating Connectors |           | Junction Shell | Strain Relief | Pull-Tab |
|------------------|-------------------|-----------|----------------|---------------|----------|
|                  | Plug              | Socket    | Plastic        |               |          |
| 14               | 3572-100X         | 3573-100X | 3485-1800Y     | 3448-60       | 3490-2   |
| 24               | 3548-100X         | 3549-100X | 3485-1700Y     | 3448-61       | 3490-2   |
| 36               | 3366-100X         | 3367-100X | 3485-2800Y     | 3448-62       | 3490-3   |
| 50               | 3564-100X         | 3565-100X | 3485-2500Y     | 3448-63       | 3490-5   |

Options:  
X = mounting style  
Y = "F" for flat cable, "R" for round cable

| Inch<br>[mm]           |      |       |        |
|------------------------|------|-------|--------|
| Tolerance Unless Noted |      |       |        |
|                        | .0   | .00   | .000   |
| Inch                   | ± .1 | ± .01 | ± .005 |

[ ] Dimensions for Reference only

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# 3M™ I/O Connector Mounting Options and Hardware

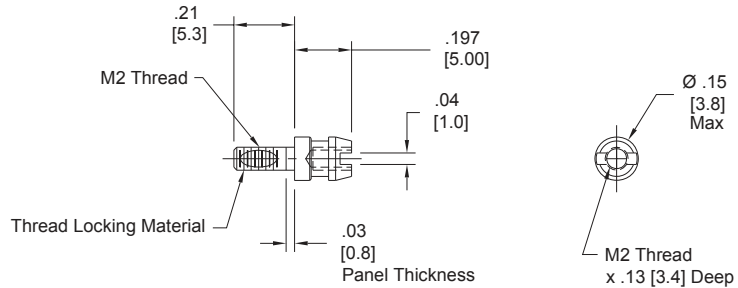
## Jack Socket Screws

Use to attach connector to panel or chassis. Not for use for PC board mounting.

### 3M Part Number 12600-S-08

For .03" [0.8 mm] Panel Thickness

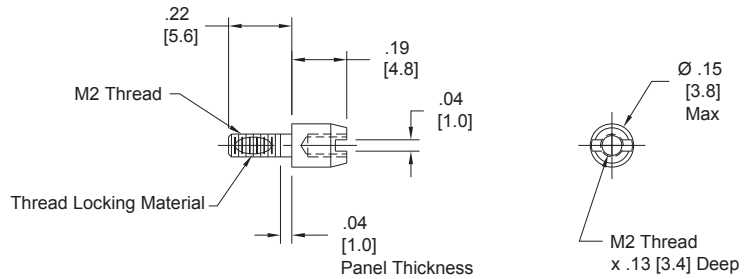
Material: Steel  
Finish: Nickel Plated  
Screw / Socket Thread Size: M2 / M2  
Recommended Max. Torque: 2.5 inch-lbf [0.3 N-m]



### 3M Part Number 12600-S-10

For .04" [1.0 mm] Panel Thickness

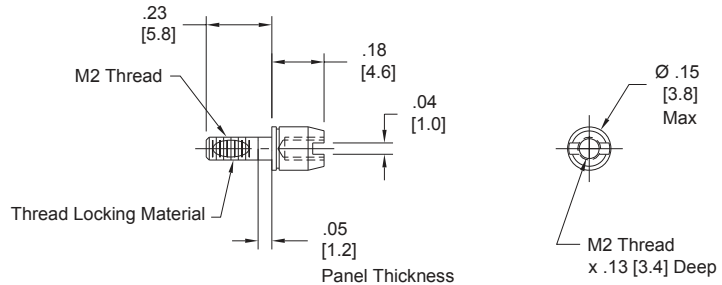
Material: Steel  
Finish: Nickel Plated  
Screw / Socket Thread Size: M2 / M2  
Recommended Max. Torque: 2.5 inch-lbf [0.3 N-m]



### 3M Part Number 12600-S-12

For .05" [1.2 mm] Panel Thickness

Material: Steel  
Finish: Nickel Plated  
Screw / Socket Thread Size: M2 / M2  
Recommended Max. Torque: 2.5 inch-lbf [0.3 N-m]

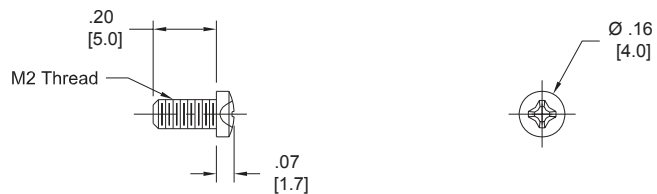


## Board Lock Screw

Use to attach connector to printed circuit board. Not for use for panel mounting.

### 3M Part Number 3344-46

Material: Stainless Steel  
Thread size: M2  
Recommended Max. Torque: 2.5 inch-lbf [0.3 N-m]



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# 3M™ I/O Connector Mounting Options and Hardware

## D Sub Connectors

### Mounting Hardware Guide

#### Selection Guide - 9 to 37 Position D Sub Connectors

1. To mount a connector to a panel, select the correct Jack Socket Kit from table 1.
2. To secure a mating connector to a panel mounted connector, select the correct Jack Screw Kit from table 2.
3. To secure two connectors together in a mid-span application where no panel exists, select both the Jack Socket Kit and Jack Screw Kit from table 2.

| Panel Mounted Connectors Jack Socket Kits |             |         |            |         |
|-------------------------------------------|-------------|---------|------------|---------|
| Panel Thickness                           | Front Mount |         | Rear Mount |         |
|                                           | Kit         | Spacers | Kit        | Spacers |
| 1/16                                      | 3341-1L     | 2       | 3341-1L    | 0       |
| 3/32                                      | 3341-1L     | 2       | 3341-1S    | 1       |
| 1/8                                       | 3341-4      | 2       | 3341-1S    | 0       |

Note: Spacers Placed Under Head of Jack Sockets

| Junction Shell | Connectors with Junction Shells |         |                 |
|----------------|---------------------------------|---------|-----------------|
|                | Jack Screw Kit                  | Spacers | Jack Socket Kit |
| -----          | 3342-1                          | -----   | 3341-1L         |
| 3485-2X00      | 3342-2                          | 2       | 3341-4          |
| 3357-41XX      | 3342-2                          | 2       | 3341-4          |
| 3357-51XX      | 3342-2                          | 2       | 3341-4          |
| 3357-65XX      | 3342-x Supplied                 | -----   | 3341-4          |
| 3357-92XX      | 3342-x Supplied or 3341-7       |         | 3341-1L         |

Notes:

1. Jack Sockets used for MidSpan Applications.
2. Spacers Placed Under Head of Jack Screws.

#### Selection Guide - 50 Position D Sub Connectors See TS-0034 Socket and TS-0035 Plug.

Mounting Options Using 3357-9250 Junction Shell & 3505-62 Latch Bracket. See TS-0245.

Front Panel Mounted Connectors:

Connectors not designed for this application

Rear Panel Mounted Connectors:

1/16" Panel: 1 Spacer Latch Bracket and Panel

3/32" Panel: No Spacers.

>3/32" Panel: Latch Bracket not designed for these applications.

Mid-Span Applications: Mount Latch Bracket directly to either the Plug or Socket Connector.

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#### **Important Notice**

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