3M™ I/O Connector Mounting Options and Hardware

Hardware Guide

Date Modified: January 14, 2008

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	Jack Socket Screw		X	X		2 of 9	RIA E5 & C3 apply
*3341-1S	Jack Socket Screw		X	X			
*3341-2	Jack Socket Screw			X			
*3341-3	Jack Socket Screw			X			
*3341-4	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	Jack Screw Kits		X			5 of 9	
*3342-2	Jack Screw Kits		X				
*3342-3	Jack Screw Kits		X	X			
*3342-4	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					
3475-1	Bail Mount Kits			X		7 of 9	
3475-4	Bail Mount Kits			X			
3475-5	Bail Mount Kits			X			
12600-S-08	Jack Socket Screw				X	8 of 9	
12600-S-10	Jack Socket Screw				X		
12600-S-12	Jack Socket Screw				X		
12600-S-M2X55	Board Lock Screw				X		
Mounting hardware Guide			X			9 of 9	
-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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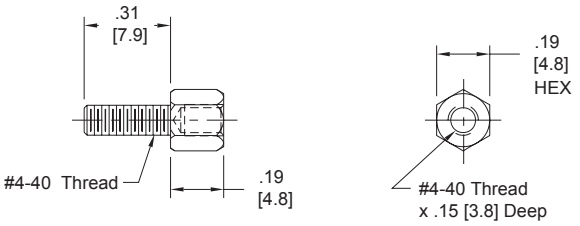
3M™ I/O Connector Mounting Options and Hardware

Jacket 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

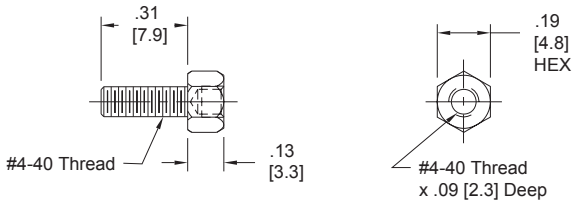
Material: Steel
Finish: Zinc with Clear Chromate
Screw / Socket Thread Size: #4-40 / #4-40
Recommended Max. Torque: 7.0 inch·lbf [0.8 N·m]
Quantity: See Kit Contents



3M Part Number
3341-1S

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

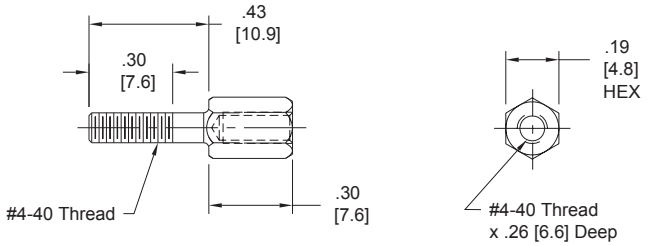
Material: Steel
Finish: Zinc with Clear Chromate
Screw / Socket Thread Size: #4-40 / #4-40
Recommended Max. Torque: 7.0 inch·lbf [0.8 N·m]
Quantity: See Kit Contents



3M Part Number
3341-2

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

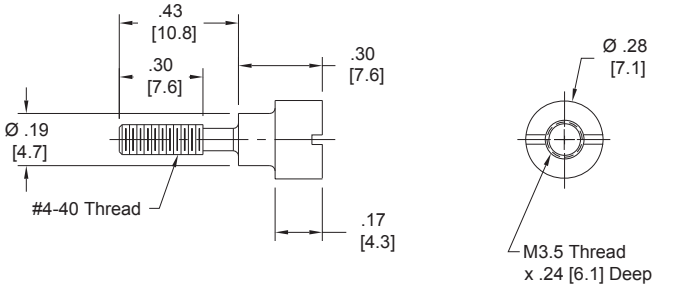
Material: Steel
Finish: Zinc with Clear Chromate
Screw / Socket Thread Size: #4-40 / #4-40
Recommended Max. Torque: 7.0 inch·lbf [0.8 N·m]
Quantity: See Kit Contents



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

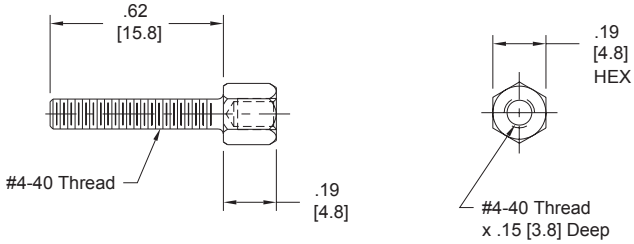
Material: Steel
Finish: Black Oxide
Screw / Socket Thread Size: #4-40 / M3.5
Recommended Max. Torque: 7.0 inch·lbf [0.8 N·m]
Quantity: See Kit Contents



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]
Quantity: See Kit Contents



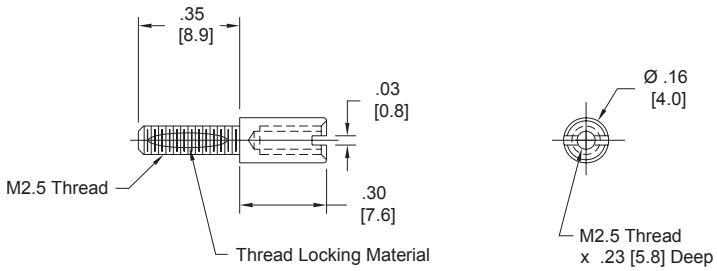
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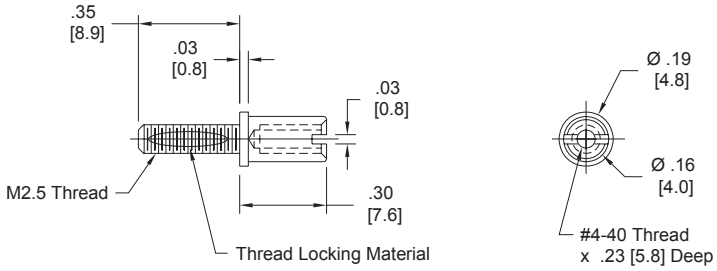
3M Part Number
3341-10

Material: Stainless Steel
Screw / Socket Thread Size: M2.5 / M2.5
Recommended Max. Torque: 2.5 inch·lbf [0.3 N·m]
Package Size: 200 Pieces



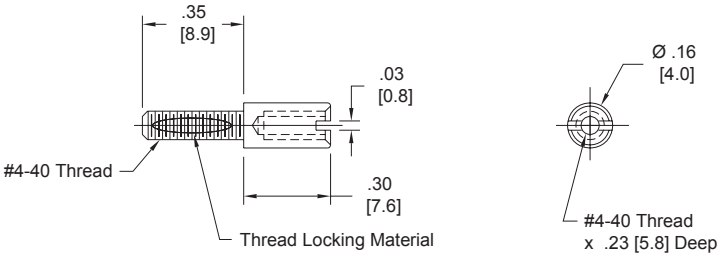
3M Part Number
3341-13

Material: Stainless Steel
Screw / Socket Thread Size: M2.5 / #4-40
Recommended Max. Torque: 2.5 inch·lbf [0.3 N·m]
Package Size: 200 Pieces



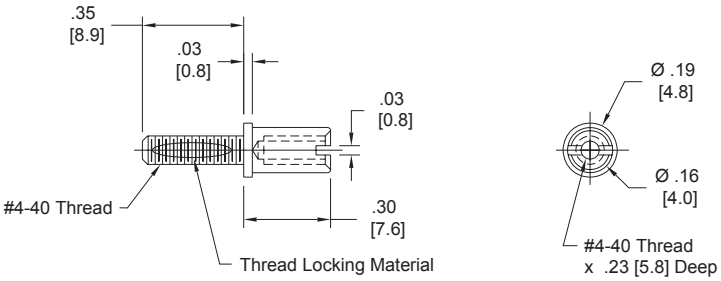
3M Part Number
3341-16

Material: Stainless Steel
Screw / Socket Thread Size: #4-40 / #4-40
Recommended Max. Torque: 3.5 inch·lbf [0.4 N·m]
Package Size: 200 Pieces



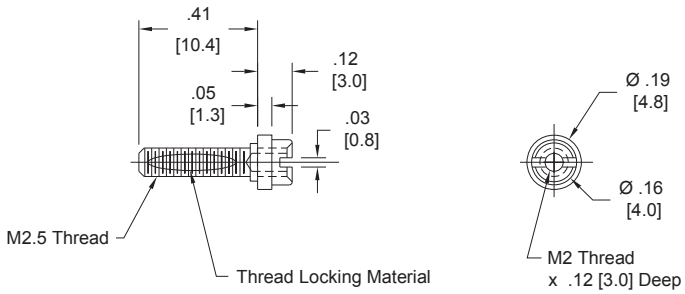
3M Part Number
3341-17

Material: Stainless Steel
Screw / Socket Thread Size: #4-40 / #4-40
Recommended Max. Torque: 3.5 inch·lbf [0.4 N·m]
Package Size: 200 Pieces



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]
Package Size: 200 Pieces



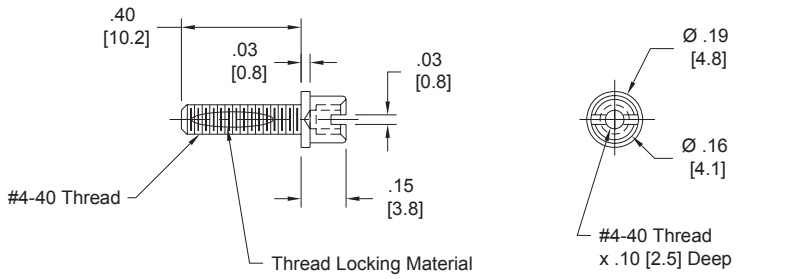
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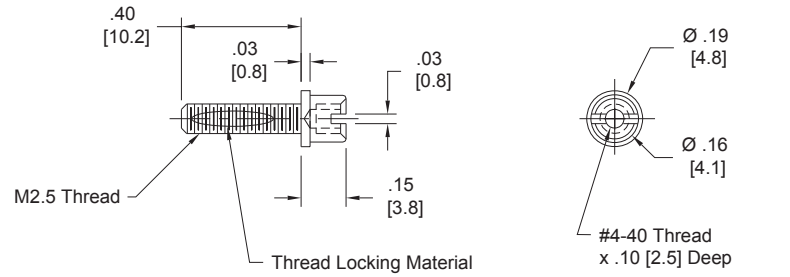
3M Part Number
3341-30

Material: Stainless Steel
Screw / Socket Thread Size: #4-40 / #4-40
Recommended Max. Torque: 3.5 inch·lbf [0.4 N·m]
Package Size: 200 Pieces



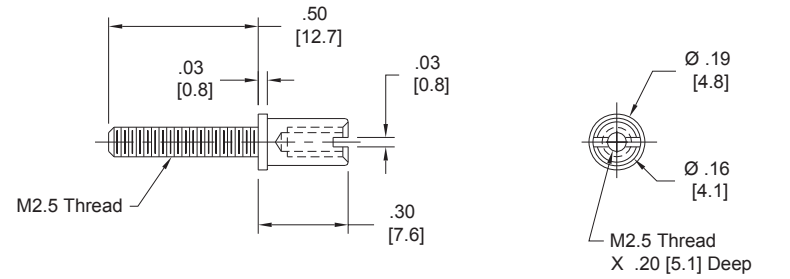
3M Part Number
3341-31

Material: Stainless Steel
Screw / Socket Thread Size: M2.5 / #4-40
Recommended Max. Torque: 2.5 inch·lbf [0.3 N·m]
Package Size: 200 Pieces



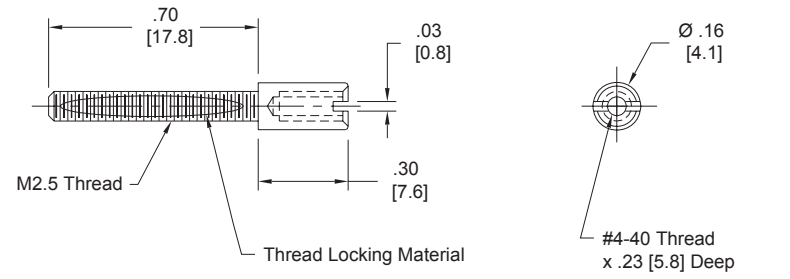
3M Part Number
3341-32

Material: Stainless Steel
Screw / Socket Thread Size: M2.5 / #4-40
Recommended Max. Torque: 2.5 inch·lbf [0.3 N·m]
Package Size: 200 Pieces



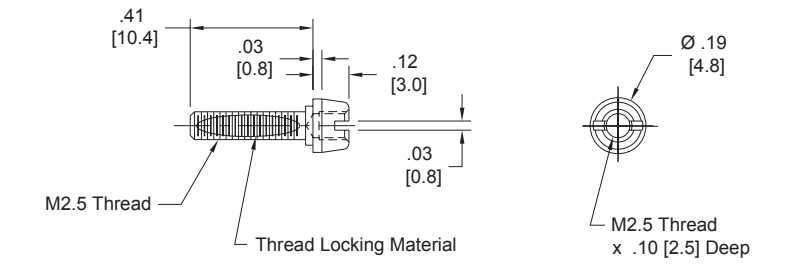
3M Part Number
3341-35

Material: Stainless Steel
Screw / Socket Thread Size: M2.5 / #4-40
Recommended Max. Torque: 2.5 inch·lbf [0.3 N·m]
Package Size: 200 Pieces



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]
Package Size: 200 Pieces



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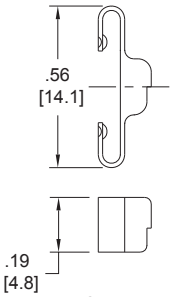
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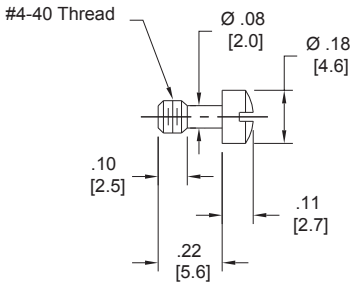
JackScrew Kits

3M Part Number
3342-1

Material: Steel
Finish: Zinc with Clear Chromate
Thread size: #4-40
Recommended Max. Torque: 7.0 inch·lbf [0.8 N·m]
Package Size: 2 Each

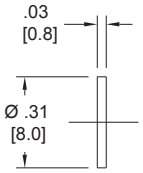


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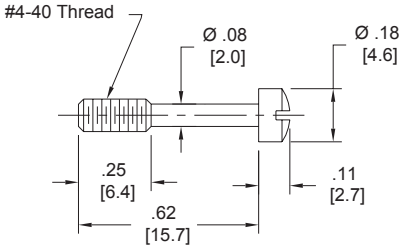


3M Part Number
3342-2

Material: Steel
Finish: Zinc with Clear Chromate
Thread size: #4-40
Recommended Max. Torque: 7.0 inch·lbf [0.8 N·m]
Package Size: 2 Each

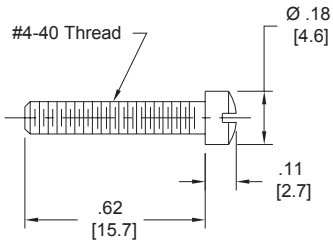


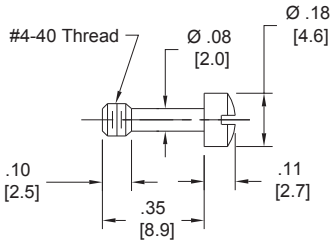
Spacer



3M Part Number
3342-3

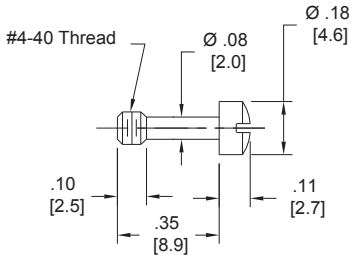
Material: Steel
Finish: Zinc with Clear Chromate
Thread size: #4-40
Recommended Max. Torque: 7.0 inch·lbf [0.8 N·m]
Package Size: 2 Each





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]
Package Size: 2 Each



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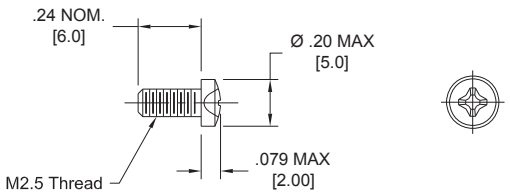
3M™ I/O Connector Mounting Options and Hardware

Board Lock Screws

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

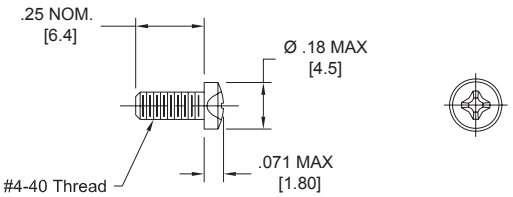
3M Part Number
3344-3

Material: Steel
Finish: Nickel Plated
Thread size: M2.5
Recommended Max. Torque: 2.5 inch·lbf [0.3 N·m]
Package Size: 200 Pieces



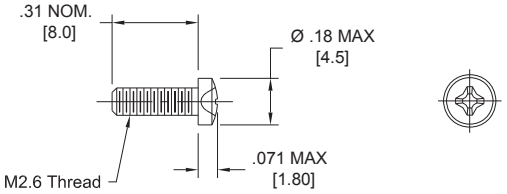
3M Part Number
3344-4

Material: Steel
Finish: Nickel Plated
Thread size: #4-40
Recommended Max. Torque: 3.5 inch·lbf [0.4 N·m]
Package Size: 200 Pieces



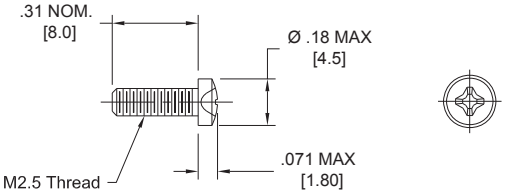
3M Part Number
3344-26

Material: Steel
Finish: Zinc
Thread size: M2.6
Recommended Max. Torque: 2.5 inch·lbf [0.3 N·m]
Package Size: 200 Pieces



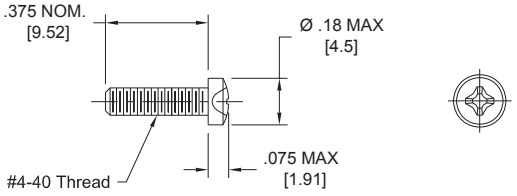
3M Part Number
3344-36

Material: Steel
Finish: Zinc
Thread size: M2.5
Recommended Max. Torque: 2.5 inch·lbf [0.3 N·m]
Package Size: 200 Pieces



3M Part Number
3344-44

Material: Steel
Finish: Zinc
Thread size: #4-40
Recommended Max. Torque: 3.5 inch·lbf [0.4 N·m]
Package Size: 200 Pieces



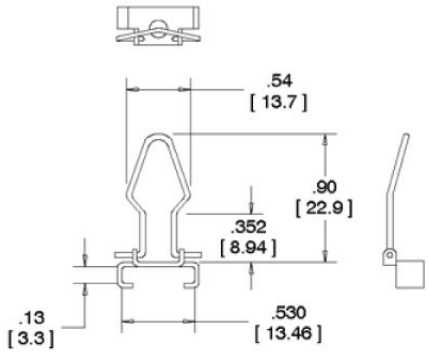
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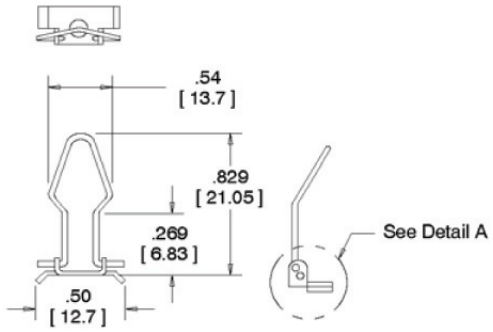
Bail Mount Kits for D Ribbon Connectors

3475-1



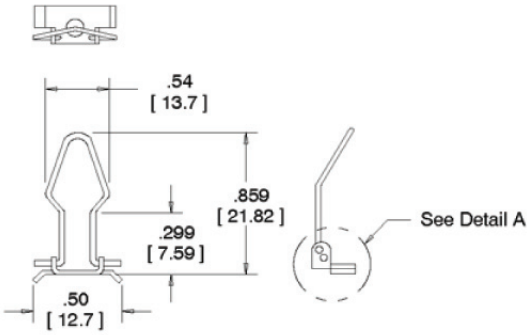
Plastic Connector
Mounted to Front of Panel

3475-4

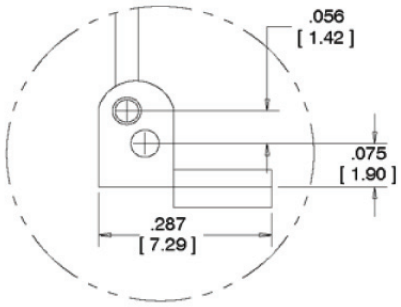


Plastic & Metal Faced Connectors
Mounted to Rear of
.0625, .075, .125 Panels

3475-5



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



Detail A

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

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
[mm]

Tolerance Unless Noted			
	.0	.00	.000
Inch	± .1	± .01	± .005

[ ] Dimensions for Reference only

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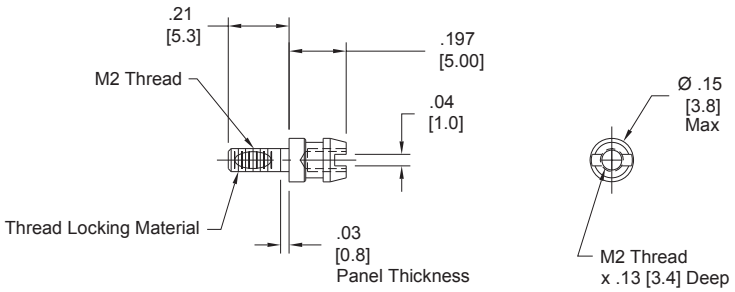
Jack Socket Screws

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

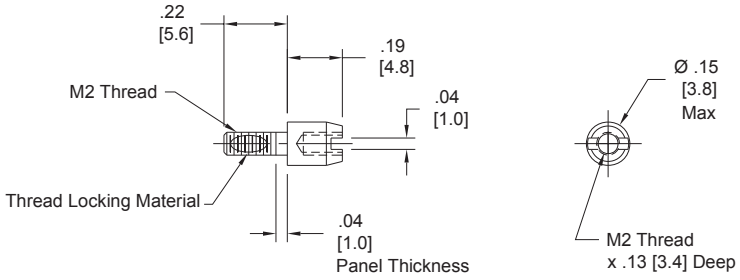
Material: Steel
Finish: Nickel Plated
Screw / Socket Thread Size: M2 / M2
Recommended Max. Torque: 2.5 inch·lbf [0.3 N·m]
Package Size: 200 Pieces



3M Part Number
12600-S-10

For .04" [1.0 mm] Panel Thickness

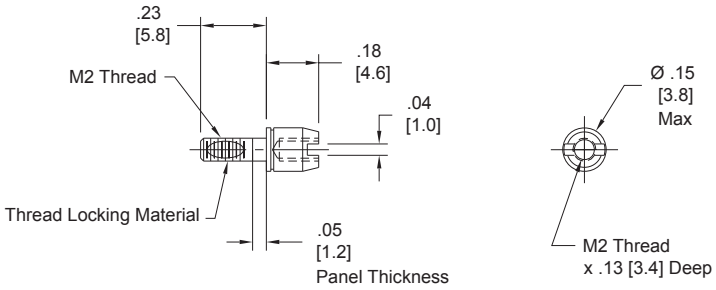
Material: Steel
Finish: Nickel Plated
Screw / Socket Thread Size: M2 / M2
Recommended Max. Torque: 2.5 inch·lbf [0.3 N·m]
Package Size: 200 Pieces



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]
Package Size: 200 Pieces

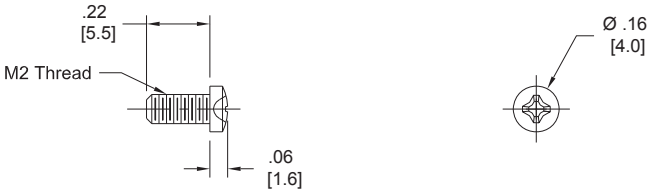


Board Lock Screw

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

3M Part Number
12600-S-M2x55

Material: Steel
Finish: Zinc
Thread size: M2
Recommended Max. Torque: 2.5 inch·lbf [0.3 N·m]
Package Size: 600 Pieces0



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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 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	Jack Screw		Jack Socket
	Kit	Spacers	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	Supplied	-----	3341-4
3357-92XX	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

Mounting Options Using 3357-9250 Junction Shell & 3505-62 Latch Bracket

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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Regulatory Information Appendix

3M Electronic Solutions Division/Interconnect

EUROPE

Appendix E1: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product is RoHS Compliant 2005/95/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E2: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains lead in the compliant pin area in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/747/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E3: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment as amended by Commission Decision 2005/618/EC.

This product contains lead in the solder tail area in excess of the maximum concentration value allowed.

Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E4: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains decaBDE in the insulating material in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/717/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E5: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains lead in excess of the maximum concentration value allowed but is compliant by exemption under Item 6 of the Annex to the Directive.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

CHINA

Appendix C1: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.
This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does not** contain any of the following substances in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix C2: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.
This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

The numerical reference in the symbol above should not be construed as a representation regarding the product's life or an extension of a product warranty. The product warranty is stated below. In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the product Warranty stated below.

产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	铅(Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
端子镀层(contact plating)	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)

Appendix C3: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

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产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	铅(Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
合金(Metal alloy)	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)

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