

# 3M™ Four-Wall Header

.100" x .100" Latch/Ejector, Straight and Right Angle

3000 Series



- Military (with 3M's 3518 & N3518 polarizing key) and centerbump polarization
- Optional ejector latches
- Mounting holes for securing header to board
- Optional polarizing posts available
- High temperature insulator option suitable for "no lead" soldering operations
- High temperature option suitable for reflow soldering using "paste in hole" techniques
- Solder tail option
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of [www.3Mconnectors.com](http://www.3Mconnectors.com) for compliance information

Date Modified: October 2, 2012

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## Physical

### Insulator:

Material: Glass Filled Polyester (PBT)  
Glass Filled Polyester (PCT) - (High Temp Option)  
Flammability: UL 94V-0  
Color: Gray (PBT), Black (PCT)

### Contact:

Material: Copper Alloy

### Plating:

Underplating: 100  $\mu$ " [2.54  $\mu$ m] Nickel - Overall  
Wiping Area: 30  $\mu$ " [ 0.76  $\mu$ m ] Gold  
Solder Tails: Tin Lead or Matte Tin (See Ordering Information)

**Marking:** 3M Logo, Part Identification Number and Orientation Triangle

## Electrical

**Current Rating:** 5.00 A, 1 Contact Powered  
3.00 A, 6 Contacts Powered  
1.75 A, All Contacts Powered  
Rating Conditions: EIA-364-070 Method 2, 30°C maximum temperature rise, 20% derated. Reference appropriate 3M Product Specification for detailed current derating curves.

**Insulation Resistance:**  $>1 \times 10^9 \Omega$  at 500 V<sub>DC</sub>

**Withstanding Voltage:** 1,000 V<sub>RMS</sub> at Sea Level

## Environmental

**Temperature Rating:** -55°C to +105°C

**Process Rating:** High Temp PCT insulator version: 260°C, per J-STD-020C, single pass  
PBT insulator version: 191°C, maximum insulator temperature, solder wave process only

**Moisture Sensitivity Level:** 1 (per J-STD-020C) High Temp. (PCT) versions only

UL File No.: E68080

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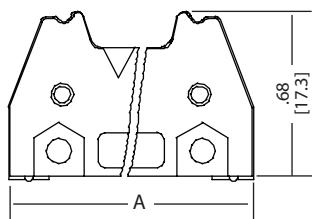
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# 3M™ Four-Wall Header

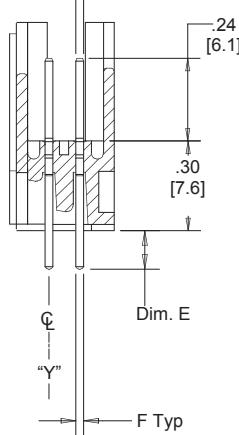
.100" x .100" Latch/Ejector, Straight and Right Angle

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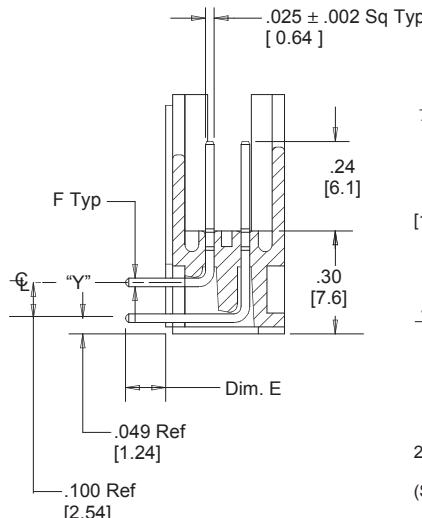
-X0XX  
Header without Latch Ejector



.025 ± .002 Sq Typ  
[ 0.64 ]

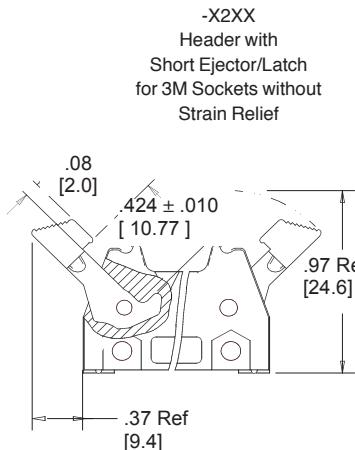


Section A-A  
(Straight)

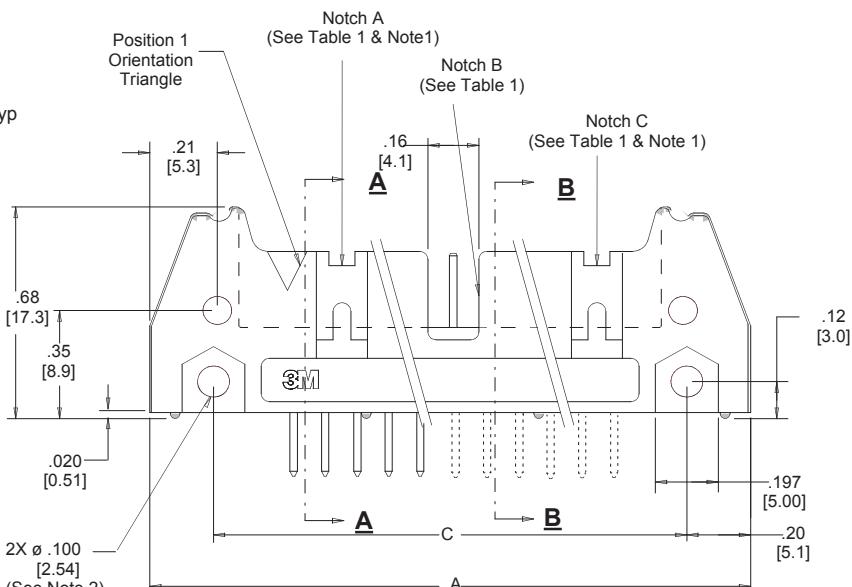
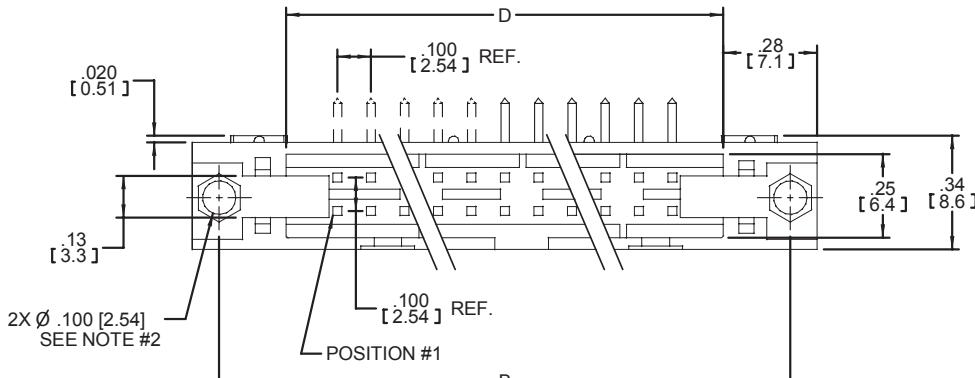
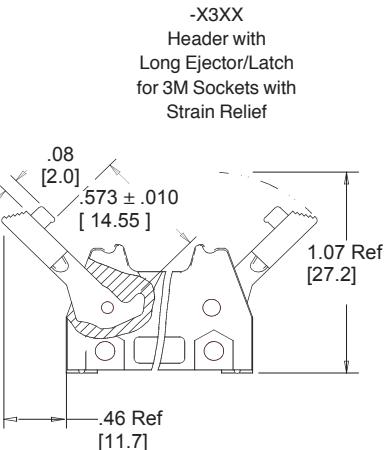


Section B-B  
(Right Angle)

-X2XX  
Header with  
Short Ejector/Latch  
for 3M Sockets without  
Strain Relief



-X3XX  
Header with  
Long Ejector/Latch  
for 3M Sockets with  
Strain Relief



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## Part Customization

This spec sheet details our standard offering.

3M has several capabilities that can provide a part tailored to your specific needs. Ask your 3M sales representative or customer service for more details.

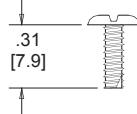
Both snap in and roll pin latches may be ordered separately. Snap in and roll style latches are dimensionally and functionally equivalent. If ordering snap-in or roll pin style latches separately, please use the below chart.

	Short Latch	Long Latch	Latch Style	Color
Standard Temperature (PBT)	3505-2	3505-3	Roll Pin	Gray
High Temperature (PCT)	N3505-2B	N3505-3B	Roll Pin	Black
High Temperature (PBT)	3505-30	3505-31	Snap-In	Gray
High Temperature (PPA)	N3505-30B	N3505-31B	Snap-In	Black

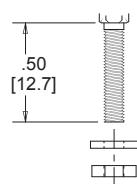
- Selective pin removal (ATA or other compatibility)
- Wire wrap tails styles

## Mounting Hardware

3341-5  
(Installed from bottom of board)



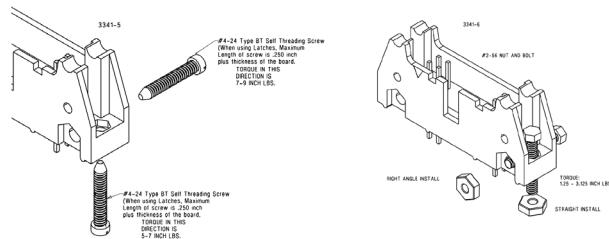
3341-6  
(Must be inserted prior to latch on vertical headers)



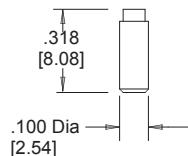
Panhead Thread Cutting Screw:  
#4-24 X 5/16"  
Type: USA Std BT, Federal BG

Hex Head Bolt, Nut and Washer  
Bolt - #2-56 X 1/2"

3341-5 & 6  
Material - Stainless Steel



## Polarizing Post



3201-4	LCP	Black
3201-5	PBT	Gray

Note: Insert Post into one mounting hardware hole on bottom of header.  
Set post to protrude .115" [2.92].

## 2500 & 3000 Series Shrouded Header

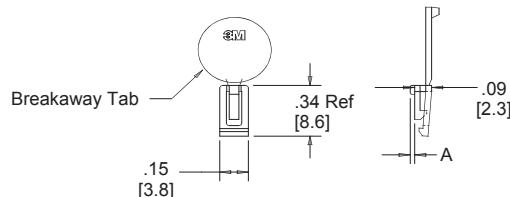
Total Number of Pins	Number of Tails Kinked	Positions Kinked			
10	4	3	4	7	8
14	4	3	4	11	12
16	4	3	4	13	14
20	4	3	4	17	18
24	4	3	4	21	22
26	4	3	4	23	24
30	4	5	6	25	26
34	4	7	8	27	28
36	4	7	8	27	28
40	4	7	8	33	34
50	4	7	8	43	44
60	4	11	12	49	50
64	4	11	12	53	54

### Kinked Tail Detail:

Kink is located .05" below bottom surface of plastic.  
External radius of kink toward part centerline.

## Polarizing Keys

			Dim A
N3518	LCP	Black	.02
3518	PBT	Gray	.02



Note: #2216 B/A Scotchweld can be used to adhere keys.

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