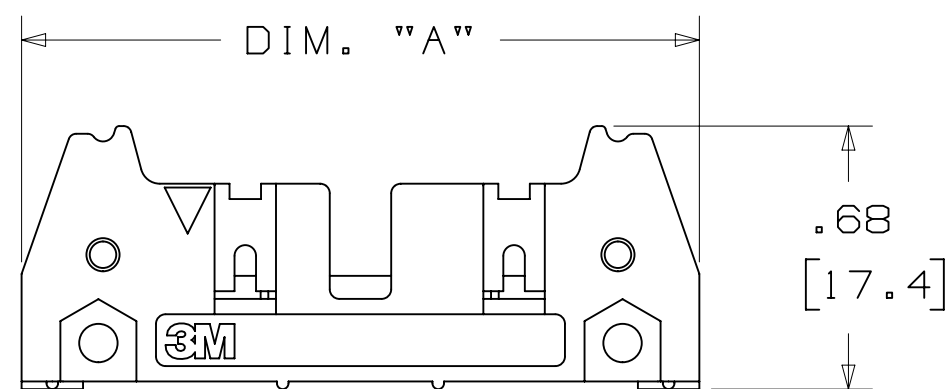
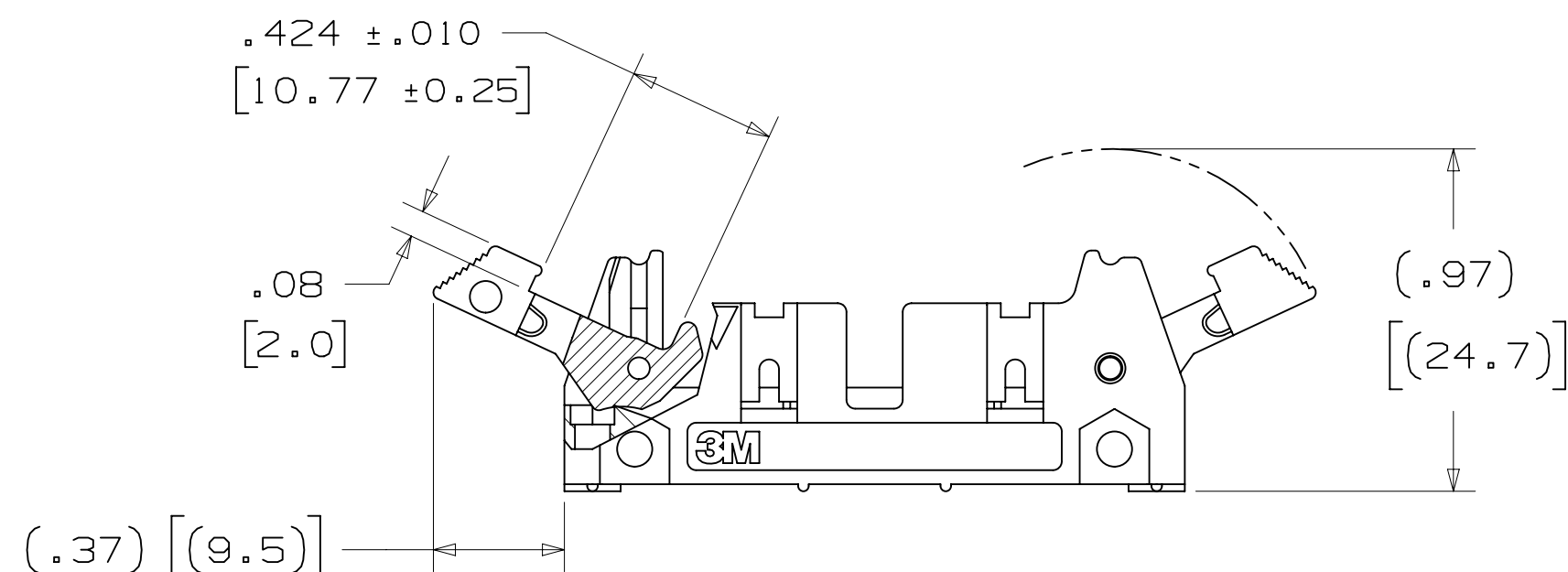


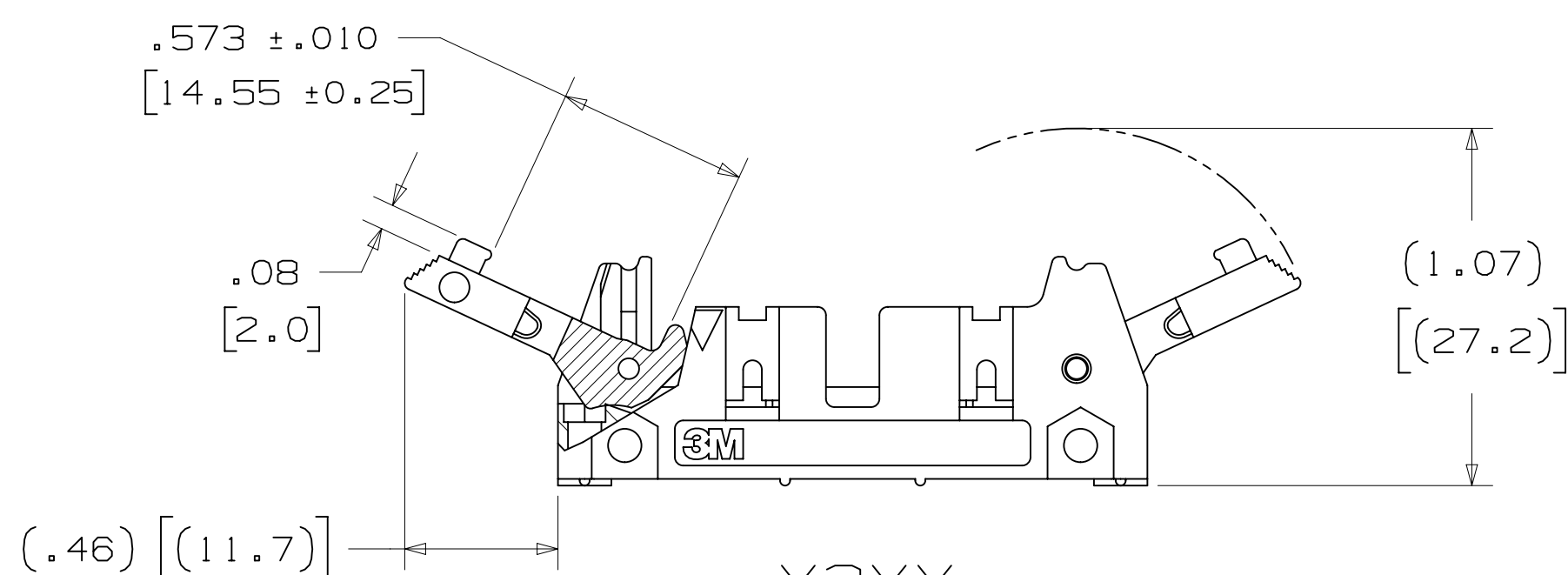
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



-X0XX
HEADER WITHOUT LATCH EJECTOR



-X2XX
HEADER WITH SHORT LATCH EJECTOR
FOR 3M SOCKETS WITHOUT STRAIN RELIEF



-X3XX
HEADER WITH LONG LATCH EJECTOR
FOR 3M SOCKETS WITH STRAIN RELIEF

X3XXX-XXXXXX

PIN CONFIGURATION: _____
1 = RIGHT ANGLE SOLDER TAILS
2 = STRAIGHT SOLDER TAILS

RB = 30μ" [0.76μm] GOLD AND 200μ" [5.08μm] MATTE TIN
(APP. E1 & C1 APPLY)

UB = 30μ" [0.76μm] GOLD AND 200μ" [5.08μm]
TIN LEAD (APP. E3 & C2 APPLY)

02 = FOR .062 [1.57] THICK BOARD
03 = FOR .094 TO .125 [2.39 TO 3.18] THICK BOARD
K2 = KINKED FOR .062 [1.57] THICK BOARD

0 = NO LATCH/EJECTOR INSTALLED
2 = SHORT ROLL PIN LATCH/EJECTORS
3 = LONG ROLL PIN LATCH/EJECTORS

- * MILITARY (WITH 3M'S N3518 POLARIZING KEY) AND CENTERBUMP POLARIZATION.
- * LOW PROFILE.
- * OPTIONAL EJECTOR LATCHES.
- * MOUNTING HOLES FOR SECURING HEADER TO BOARD.
- * THREE WALL SHROUD PROVIDES DESIGN FLEXIBILITY.
- * SOLDER TAIL AND WRAP TAIL OPTIONS.
- * OPTIONAL POLARIZING POSTS AVAILABLE.
- * HIGH TEMPERATURE INSULATOR SUITABLE FOR "NO LEAD" SOLDERING OPERATIONS.
- * SUITABLE FOR REFLOW SOLDERING USING "PASTE IN HOLE" TECHNIQUES.

2 PHYSICAL :

INSULATOR:
MATERIAL: GLASS FILLED POLYESTER (PCT)
FLAMMABILITY: UL94V-0
COLOR: BLACK
CONTACT:
MATERIAL: COPPER ALLOY
PLATING:
UNDER PLATING: 100 μ " [2.54 μ m] NICKEL-OVERALL
WIPING AREA: 30 μ " [0.76 μ m] AVG. GOLD
SOLDER TAILS: 200 μ " [5.08 μ m] TIN LEAD OR MATTE TIN (SEE ORDERING INFORMATION)
MARKINGS: 3M LOGO, PART IDENTIFICATION NUMBER AND ORIENTATION TRIANGLE

2 ELECTRICAL :

CURRENT RATING: 5.00A, 1 CONTACT POWERED
3.00A, 6 CONTACTS POWERED
1.75A, 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_{DC}
WITHSTANDING VOLTAGE: 1,000V_{RMS} AT SEA LEVEL

2 ENVIRONMENTAL :

TEMPERATURE RATING: -55°C TO 105°C
PROCESS RATING: 260°C, PER J-STD-020C, SINGLE PASS
MOISTURE SENSITIVITY LEVEL: 1 (PER J-STD-020C)

X3XXX-XXXXXX

PIN CONFIGURATION: _____
1 = RIGHT ANGLE SOLDER TAILS
2 = STRAIGHT SOLDER TAILS

RB = 30μ" [0.76μm] GOLD AND 200μ" [5.08μm] MATTE TIN
(APP. E1 & C1 APPLY)

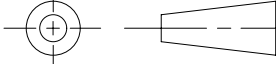
UB = 30μ" [0.76μm] GOLD AND 200μ" [5.08μm]
TIN LEAD (APP. E3 & C2 APPLY)

02 = FOR .062 [1.57] THICK BOARD
03 = FOR .094 TO .125 [2.39 TO 3.18] THICK BOARD
K2 = KINKED FOR .062 [1.57] THICK BOARD

0 = NO LATCH/EJECTOR INSTALLED
2 = SHORT ROLL PIN LATCH/EJECTORS
3 = LONG ROLL PIN LATCH/EJECTORS

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FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

DIMENSIONS: INCHES [MM]
[MM] IS REF. ONLY

DESIGN REFERENCE			NEXT ASSEMBLY			REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ADDRESS						DRFT CASTIGLIONE		DATE AUG 05, 2014		MFG		DATE	
						CHKD		DATE		APPR. R. SCHERER		DATE SEP 05, 2014	
DIVISION			DIVISION CODE					3M Center St. Paul, MN 55144		© 3M COPYRIGHT 2015 This document and the information it contains are 3M property and may not be reproduced or further distributed without the written permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.			
Interconnect Solutions			EMSD										
DO NOT SCALE DRAWING			TOLERANCES EXCEPT AS NOTED										
			INCHES			TITLE		HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA					
THIRD ANGLE PROJECTION			.0									.00 ± .01	
			.000 ± .005									.0000 ±	
INTERPRET PER ASME Y14.5 - 2009			MILLIMETERS										
			.0			.00 ± .13							
MAX SURFACE ROUGHNESS			.00 ± .03										
☒ NO SURFACES			.000 ±										
☒ MARKED ONLY			ANGLE										
			CAGE NUMBER			SIZE		DRAWING NO.		REV.			
			D 78-5100-0771-5							H			
			MODEL			3000 SERIES		DET.		LISTS ☐ YES ☒ NO		SHT 1 OF	

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3M™ THREE-WALL HEADER, 3000 SERIES

.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



TABLE 1							
PIN QTY.	3M PART NUMBER	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	POLARIZING NOTCHES	PIN QTY.
10	3793	1.26 [32.1]	1.105 [28.04]	.865 [21.97]	.71 [18.0]	BC	10
14	3314	1.46 [37.2]	1.305 [33.12]	1.065 [27.05]	.91 [23.1]	BC	14
16	3408	1.56 [39.7]	1.405 [35.66]	1.165 [29.59]	1.01 [25.6]	ABC	16
20	3428	1.76 [44.8]	1.604 [40.74]	1.365 [34.67]	1.21 [30.7]	ABC	20
26	3429	2.06 [52.4]	1.905 [48.36]	1.665 [42.29]	1.51 [38.3]	ABC	26
34	3431	2.46 [62.6]	2.305 [58.52]	2.065 [52.45]	1.91 [48.5]	ABC	34
40	3432	2.76 [70.2]	2.605 [66.14]	2.365 [60.07]	2.21 [56.1]	ABC	40
50	3433	3.26 [82.9]	3.105 [78.84]	2.865 [72.77]	2.71 [68.8]	ABC	50
60	3372	3.76 [95.6]	3.605 [91.54]	3.365 [85.47]	3.21 [81.5]	ABC	60
64	3764	3.96 [100.7]	3.805 [96.62]	3.565 [90.55]	3.41 [86.6]	ABC	64

TABLE 2						
3M PART NUMBER SUFFIX	CONTACT TAIL	DIM. "E"	PIN CROSS SECTION			DIM. "G"
-1XX2 -2XX2	.062 [1.57] THICK PC BOARD	.112 [2.84]	DIM. "F" .0245+/- .0005 [.622]	DIAGONALS .028+/- .001 [.71]	CORNER RADIUS .0075 REF. [.191]	.035+/- .003 [.89] SEE NOTE 5
-1X03 -2X03	.094 [2.39] TO .125 [3.18] THICK PC BOARD	.155 [3.94]	.0245+/- .0005 [.622]	.028+/- .001 [.71]	.0075 REF. [.191]	.035+/- .003 [.89]



DESIGN REFERENCE
NEXT ASSEMBLY

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

MAX SURFACE ROUGHNESS
LISTED SURFACES
MARKED ONLY

INTERCONNECT SOLUTIONS

SCALE 4/1

INTERPRET PER ASME Y14.5 - 2009

TOLERANCES EXCEPT AS NOTED

INCHES
0 ± .01
.000 ± .005
.0000 ±

MILLIMETERS
0 ± .3
.00 ± .13
.000 ±

ANGLES

REVISIONS

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
1	ECO	AUG 05, 2014		

3M

HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA

CAGE NUMBER
DRAWING NO.
REV.

MODEL
3000 SERIES
LISTS
YES
NO
SHT 2 OF 4

3M™ THREE-WALL HEADER, 3000 SERIES
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



RECOMMENDED MOUNTING HOLE PATTERN
(STRAIGHT VERSION)



RECOMMENDED MOUNTING HOLE PATTERN
(RIGHT ANGLE VERSION)

PART CUSTOMIZATION

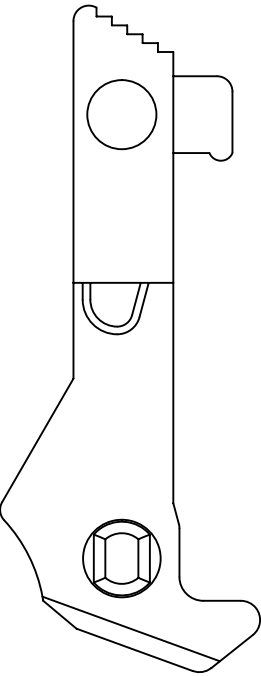
THIS SPEC SHEET DETAILS OUR STANDARD OFFERING.

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.

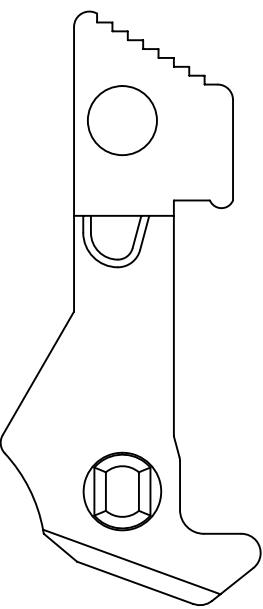
BOTH SNAP-IN AND ROLL PIN LATCHES MAY BE ORDERED SEPARATELY. SNAP-IN AND ROLL PIN STYLE LATCHES ARE DIMENSIONALLY AND FUNCTIONALLY EQUIVALENT. IF ORDERING SNAP-IN OR ROLL PIN STYLE LATCHES SEPARATELY, PLEASE USE THE BELOW CHART.

MATERIAL	SHORT LATCH	LONG LATCH	LATCH STYLE	COLOR
HIGH TEMP. (PCT)	N3505-2B	N3505-3B	ROLL PIN	BLACK
HIGH TEMP (PPA)	N3505-30B	N3505-31B	SNAP-IN	BLACK

- * SELECTIVE PIN REMOVAL (ATA OR OTHER COMPATABILITY)
- * WIRE WRAP TAILS STYLE



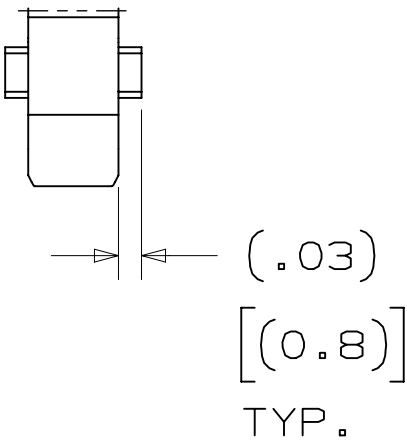
LONG



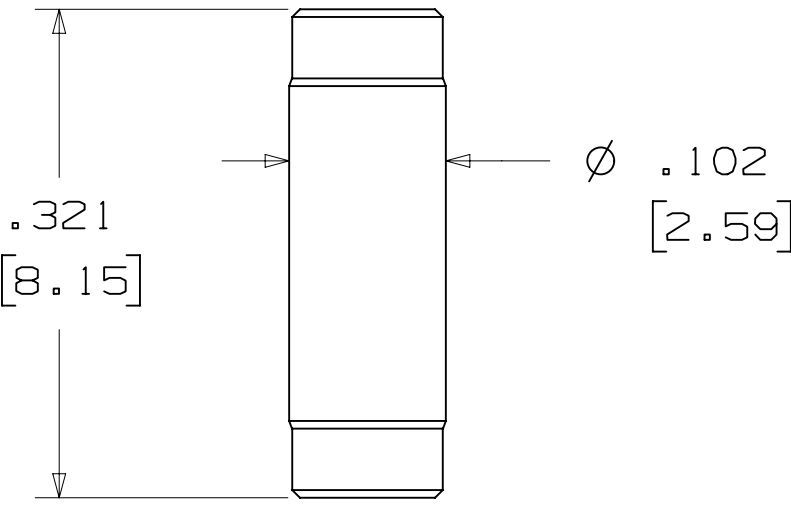
SHORT

SNAP-IN LATCHES

NOTE:
SNAP-IN LATCHES CAN ONLY BE ORDERED SEPARATELY AND ARE THE CUSTOMERS RESPONSIBILITY TO INSTALL.



POLARIZING POST



3M PART NO.	MATERIAL	COLOR
3201-4	LCP	BLACK

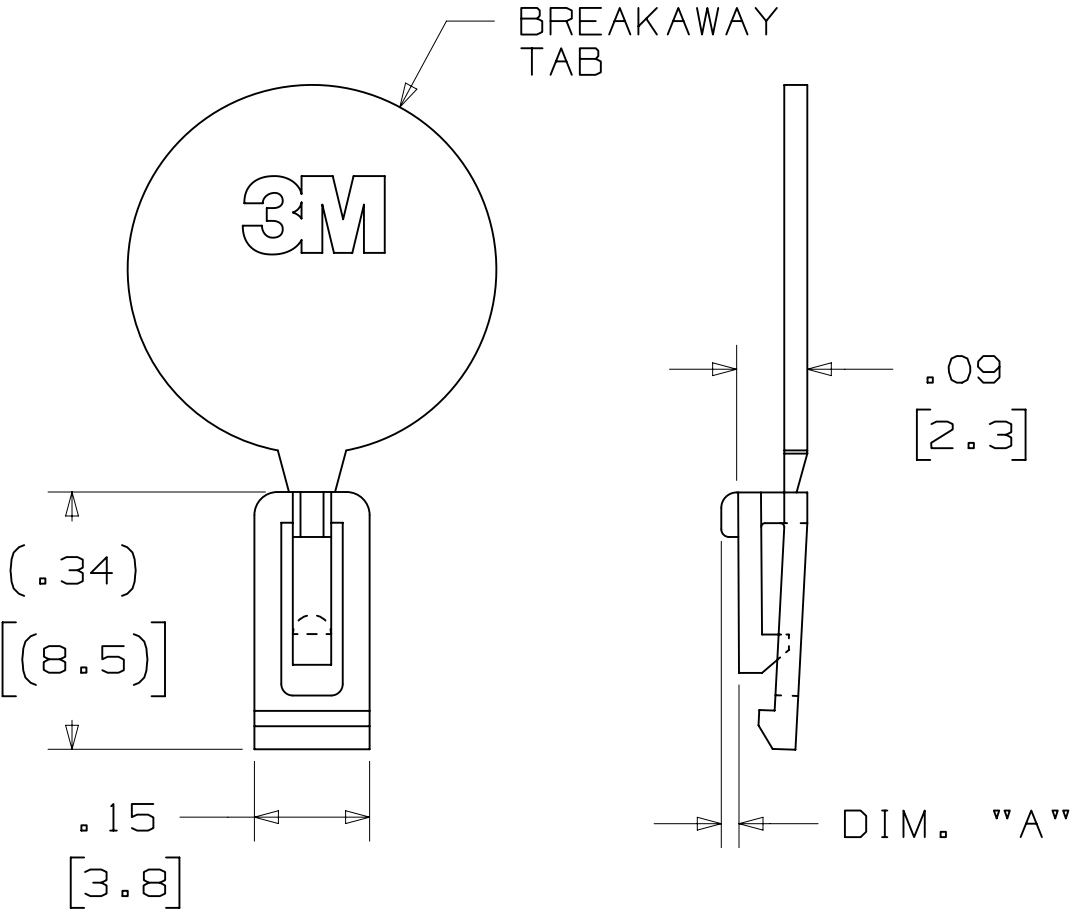
NOTE:
INSERT POST INTO ONE MOUNTING HARDWARE HOLE ON BOTTOM OF HEADER. SET POST TO PROTRUDE .115 [2.92]

(K2) OPTION

2500 & 3000 SERIES SHROUDED HEADER					
TOTAL NO. OF PINS	NO. 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
26	4	3	4	23	24
34	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 KEY



3M PART NO.	MATERIAL	COLOR	DIM. "A"
N3518	LCP	BLACK	.02

NOTE:
#2216 B/A SCOTCHWELD CAN BE USED TO ADHERE KEYS.

DESIGN REFERENCE		NEXT ASSEMBLY		H	60056	MAR 06,2015	REVISE ORDERING NUMBER	JNC	RS
DO NOT SCALE DRAWING		SCALE 4 1		G	56068	AUG 05,2014	REVISED AND REDRAWN	JNC	RS
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2009		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
MAX SURFACE ROUGHNESS		SURFACES		DRP	CASTIGLIONE	DATE	AUG 05,2014	MFG	DATE
MARKED ONLY		ANGLES		CHKD	R. SCHERER	DATE	SEP 05,2014	REV	DATE
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2015					
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.00 ±.01		.000 ±.005		HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA					
.0000 ±		MILLIMETERS		CAGE NUMBER					
.00 ±.03		.000 ±		D 78-5100-0771-5					
.000 ±		3000 SERIES		REV. H					
SHT 3 OF 4		LISTS		YES NO					

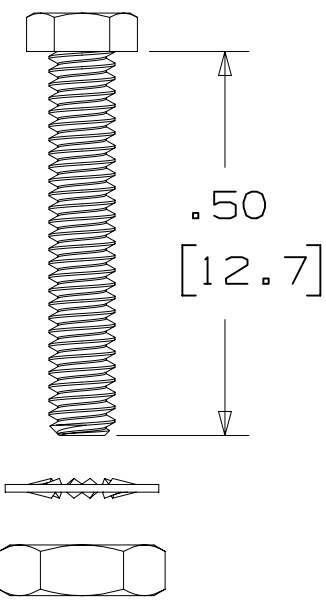
3M™ THREE-WALL HEADER, 3000 SERIES
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE

MOUNTING HARDWARE



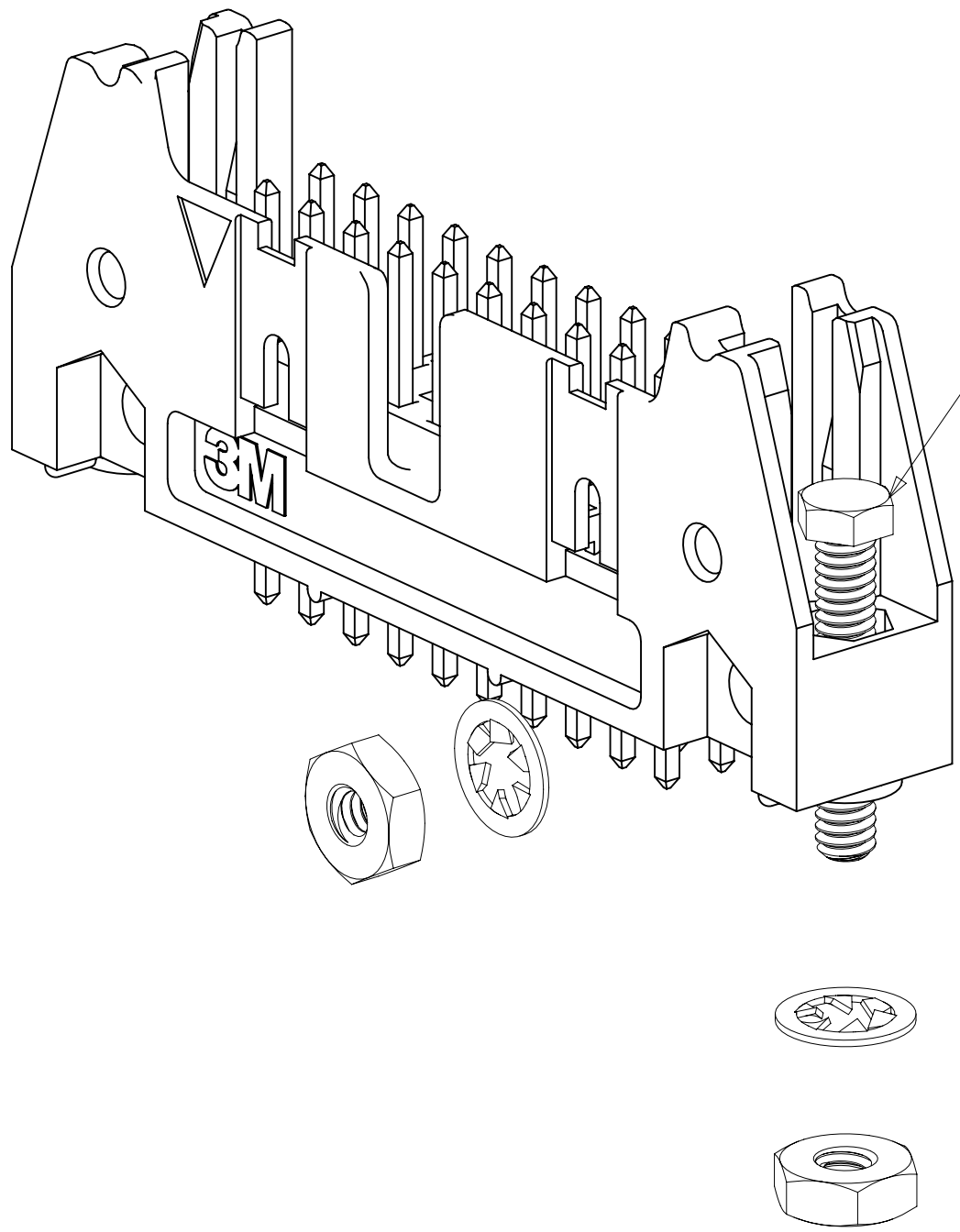
3341-5

(INSTALL FROM BOTTOM OF BOARD)
PANHEAD THREAD CUTTING SCREW:
#4-24 X 5/16"
TYPE: USA STD BT, FEDERAL BG
MATERIAL: STAINLESS STEEL



3341-6

HEX HEAD BOLT, NUT AND WASHER:
BOLT - #2-56 X 1/2"
MATERIAL: STAINLESS STEEL

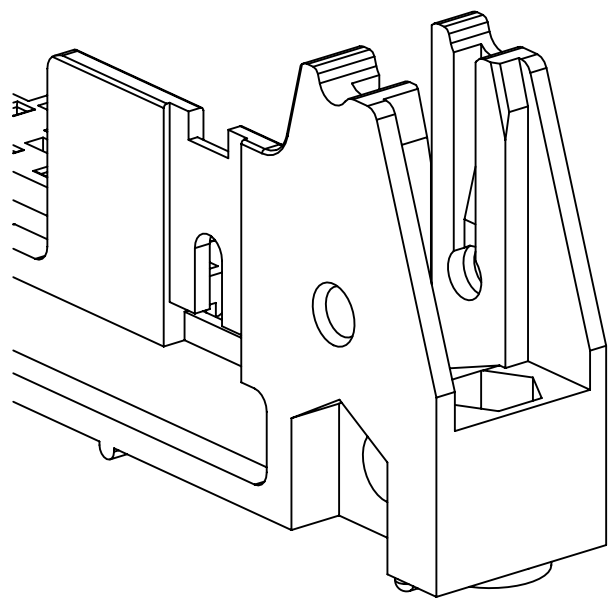


STRAIGHT VERSION INSTALL
(MUST BE INSERTED PRIOR TO
LATCH INSTALL)

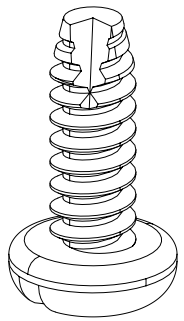
RIGHT ANGLE VERSION INSTALL

3341-6

#2-56 NUT AND BOLT
TORQUE FOR EACH BOLT: 1.25 - 3.125 INCH LBS.



#4-24 TYPE BT SELF THREADING SCREW
WHEN USING LATCHES, MAXIMUM LENGTH
OF SCREW IS .250 INCHES PLUS
THICKNESS OF THE BOARD.
TORQUE FOR EACH SCREW IS 3-5 INCH LBS.



3341-5

H		60050E		MAR 06, 2015		JNC		RS			
G		56068		AUG 05, 2014		JNC		RS			
REV		ECO		ISSUE DATE AND DESCRIPTION				DRFT		CHKD	
DRFT		CASTIGLIONE		DATE		AUG 05, 2014		MFG		DATE	
CHKD				DATE				APPR		DATE	
								R. SCHERER		SEP 05, 2014	
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DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED		TITLE					
				INCHES		HEADER, 3-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA					
THIRD ANGLE PROJECTION				MILLIMETERS							
INTERPRET PER ASME Y14.5 - 2009				.00		.3					
MAX SURFACE ROUGHNESS				.00		.13					
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