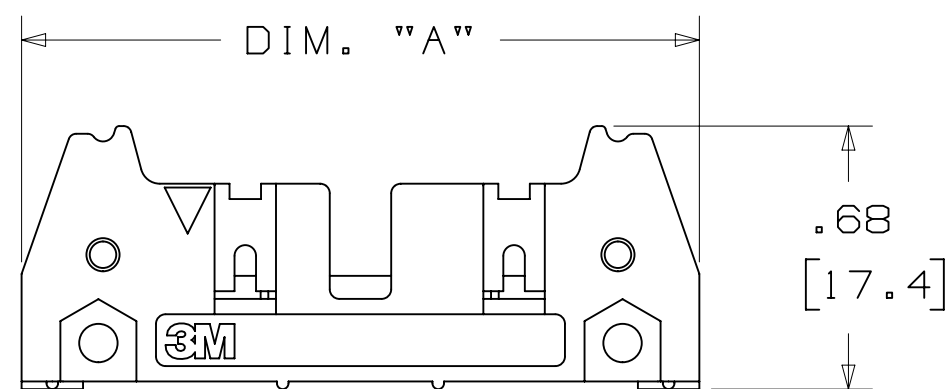
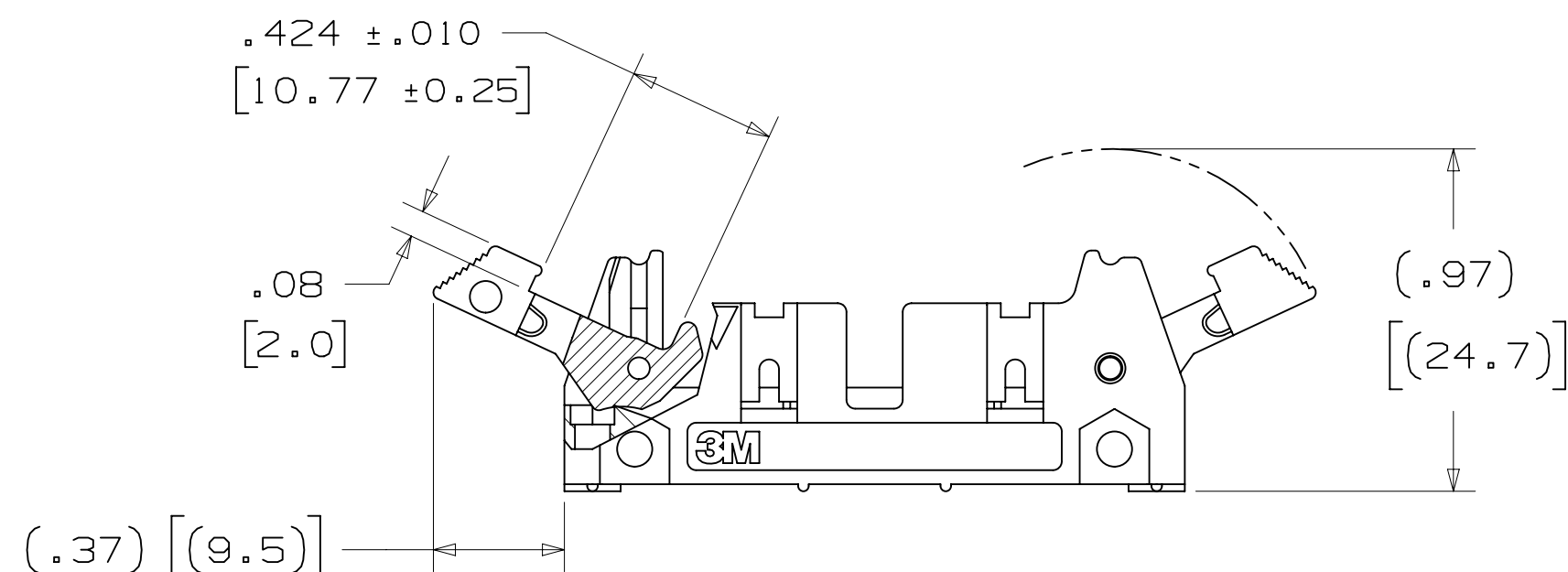


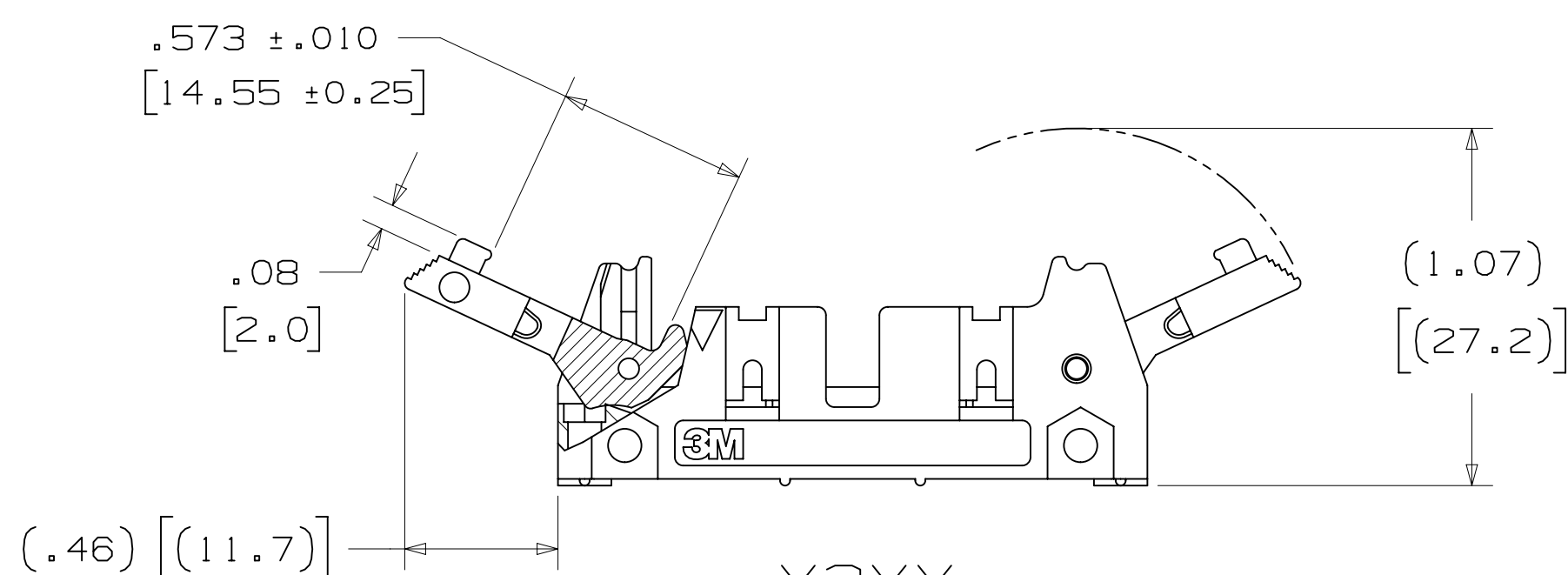
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



-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

PLATING:  
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)

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

3M IS A TRADEMARK OF 3M COMPANY.  
FOR TECHNICAL, SALES OR ORDERING  
INFORMATION CALL 800-225-5373

- \* 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 $\mu$ " [ 2.54 $\mu$ m ] NICKEL-OVERALL  
WIPING AREA: 30 $\mu$ " [ 0.76 $\mu$ m ] AVG. GOLD  
SOLDER TAILS: 200 $\mu$ " [ 5.08 $\mu$ m ] TIN LEAD OR MATTE TIN (SEE ORDERING INFORMATION)  
MARKINGS: 3M LOGO, PART IDENTIFICATION NUMBER AND ORIENTATION TRIANGLE

## 2 ELECTRICAL :

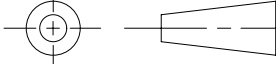
CURRENT RATING: 5.00A, 1 CONTACT POWERED  
3.00A, 6 CONTACTS POWERED  
1.75A, ALL CONTACTS POWERED  
RATING CONDITIONS: EIA-364-070 METHOD 2, 30°C MAXIMUM  
TEMPERATURE RISE, 20% DERATED, REFERENCE APPROPRIATE  
3M PRODUCT SPECIFICATION FOR DETAILED CURRENT DERATING  
CURVES.

INSULATION RESISTANCE:  $>1 \times 10^9 \Omega$  AT 500 V<sub>DC</sub>  
WITHSTANDING VOLTAGE: 1,000V<sub>RMS</sub> 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)

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              |  |  |  |  | <div>3M Center</div> <div>St. Paul, MN 55144</div>       |  | <p>© 3M COPYRIGHT 2015</p> <p>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.</p> |  |                                                                           |      |          |  |  |
| 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                         |  |  |                                                                                       |  |                                                          |  |                                                                                                                                                                                                                                                                   |  |                                                                           |      | ±        |  |  |
| INTERPRET PER ASME Y14.5 - 2009                                                       |  |  | .00                        |  |  |                                                                                       |  |                                                          |  |                                                                                                                                                                                                                                                                   |  |                                                                           |      | ± .01    |  |  |
|                                                                                       |  |  | .000                       |  |  | ± .005                                                                                |  |                                                          |  |                                                                                                                                                                                                                                                                   |  |                                                                           |      |          |  |  |
|                                                                                       |  |  | .0000                      |  |  | ±                                                                                     |  |                                                          |  |                                                                                                                                                                                                                                                                   |  |                                                                           |      |          |  |  |
|                                                                                       |  |  | MILLIMETERS                |  |  |                                                                                       |  |                                                          |  |                                                                                                                                                                                                                                                                   |  |                                                                           |      |          |  |  |
|                                                                                       |  |  | .0                         |  |  | ± .13                                                                                 |  |                                                          |  |                                                                                                                                                                                                                                                                   |  |                                                                           |      |          |  |  |
|                                                                                       |  |  | .00                        |  |  | ± .03                                                                                 |  |                                                          |  |                                                                                                                                                                                                                                                                   |  |                                                                           |      |          |  |  |
|                                                                                       |  |  | .000                       |  |  | ±                                                                                     |  |                                                          |  |                                                                                                                                                                                                                                                                   |  |                                                                           |      |          |  |  |
| MAX SURFACE ROUGHNESS                                                                 |  |  | ANGLE                      |  |  | CAGE NUMBER                                                                           |  | SIZE                                                     |  | DRAWING NO.                                                                                                                                                                                                                                                       |  | REV.                                                                      |      |          |  |  |
| <input checked="" type="checkbox"/> NO SURFACES                                       |  |  |                            |  |  | D                                                                                     |  | 78-5100-0771-5                                           |  |                                                                                                                                                                                                                                                                   |  | H                                                                         |      |          |  |  |
| <input checked="" type="checkbox"/> MARKED ONLY                                       |  |  |                            |  |  | MODEL                                                                                 |  | 3000 SERIES                                              |  | DET.                                                                                                                                                                                                                                                              |  | LISTS <input type="checkbox"/> YES <input checked="" type="checkbox"/> 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<br>-2XX2        | .062 [ 1.57 ] THICK PC BOARD                  | .112 [ 2.84 ] | DIM. "F"<br>.0245+/- .0005 [ .622 ] | DIAGONALS<br>.028+/- .001 [ .71 ] | CORNER RADIUS<br>.0075 REF. [ .191 ] | .035+/- .003 [ .89 ]<br>SEE NOTE 5 |
| -1X03<br>-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

3M

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MN 55144

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

CAGE NUMBER  
D78-5100-0771-5

MODEL  
3000 SERIES

REV. ECO  
ISSUE DATE AND DESCRIPTION  
AUG 05, 2014  
MFG DATE  
AUG 05, 2014  
APPROV. R. SCHERER  
DATE  
SEP 05, 2014

DRFT  
CHKD

DATE

DATE

H 60056  
MAR 06, 2015  
REVISE ORDERING NUMBER

JNC RS

G 56068  
AUG 05, 2014  
REVISED AND REDRAWN

JNC RS

REV. ECO  
ISSUE DATE AND DESCRIPTION  
AUG 05, 2014  
MFG DATE  
AUG 05, 2014  
APPROV. R. SCHERER  
DATE  
SEP 05, 2014

DRFT  
CHKD

DATE

DATE

CAGE NUMBER  
D78-5100-0771-5

MODEL  
3000 SERIES

DET  
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

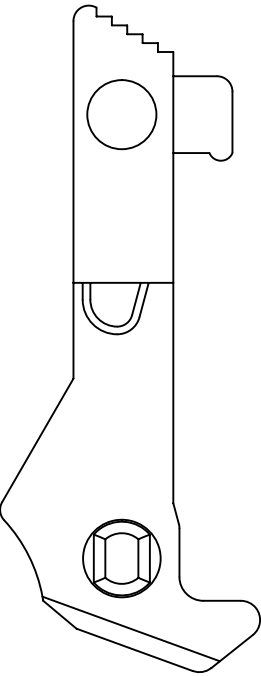
THIS SPEC SHEET DETAILS OUR STANDARD OFFERING.

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.

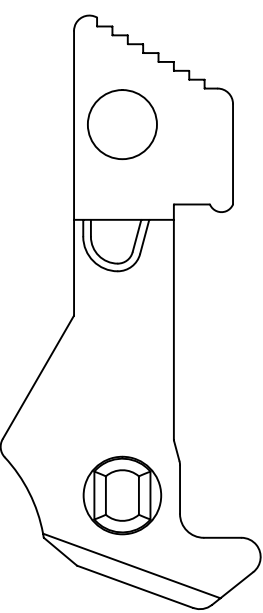
BOTH SNAP-IN AND ROLL PIN LATCHES MAY BE ORDERED SEPARATELY. SNAP-IN AND ROLL PIN STYLE LATCHES ARE DIMENSIONALLY AND FUNCTIONALLY EQUIVALENT. IF ORDERING SNAP-IN OR ROLL PIN STYLE LATCHES SEPARATELY, PLEASE USE THE BELOW CHART.

| 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

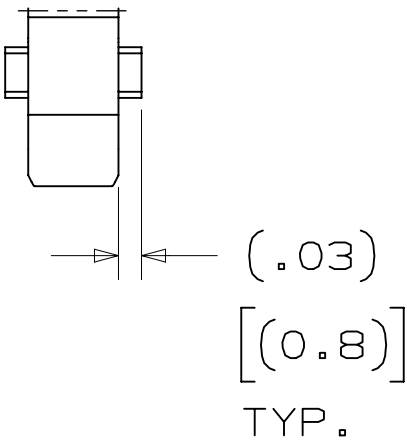


LONG



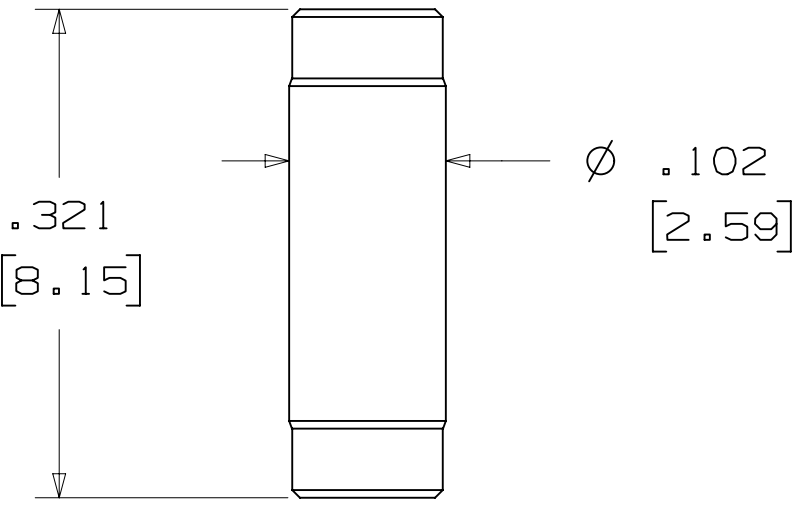
SHORT

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 |

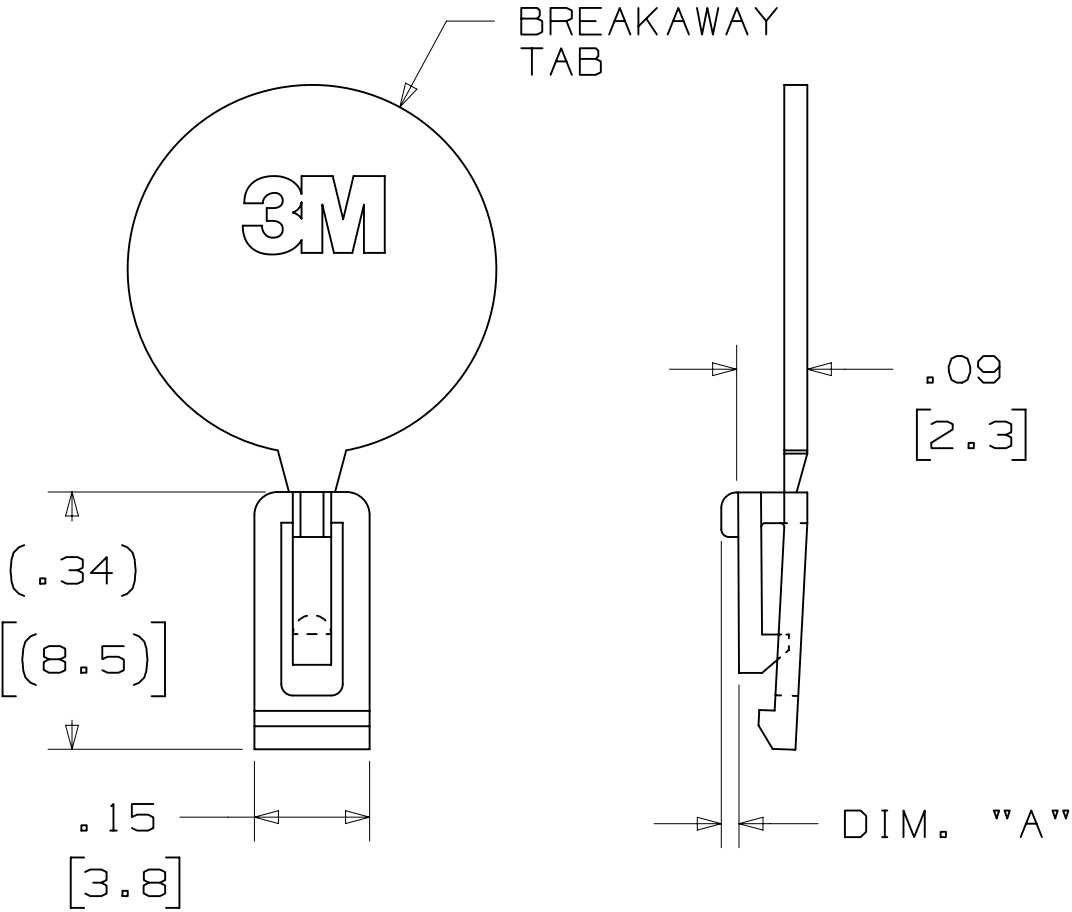
NOTE:  
INSERT POST INTO ONE MOUNTING HARDWARE HOLE ON BOTTOM OF HEADER. SET POST TO PROTRUDE .115 [2.92]

(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



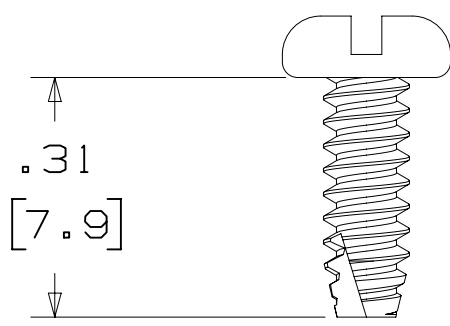
| 3M PART NO. | MATERIAL | COLOR | DIM. 'A' |
|-------------|----------|-------|----------|
| N3518       | LCP      | BLACK | .02      |

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

|                        |  |                                 |  |                                     |       |                                     |  |                                   |    |
|------------------------|--|---------------------------------|--|-------------------------------------|-------|-------------------------------------|--|-----------------------------------|----|
| DESIGN REFERENCE       |  | NEXT ASSEMBLY                   |  | H                                   | 60056 | MAR 06,2015                         |  | JNC                               | RS |
| REV                    |  | ECO                             |  | ISSUE DATE AND DESCRIPTION          |       | DRFT                                |  | CHKD                              |    |
| DIVISION               |  | DIVISION CODE                   |  | DATE                                |       | DATE                                |  | DATE                              |    |
| Interconnect Solutions |  | EMSD                            |  | AUG 05,2014                         |       | AUG 05,2014                         |  | SEP 05,2014                       |    |
| DO NOT SCALE DRAWING   |  | SCALE 4 1                       |  | TOLERANCES EXCEPT AS NOTED          |       | INCHES .00 ±.01 .000 ±.0005 .0000 ± |  | MILLIMETERS 0 ±.3 .00 ±.13 .000 ± |    |
| THIRD ANGLE PROJECTION |  | INTERPRET PER ASME Y14.5 - 2009 |  | MAX SURFACE ROUGHNESS 12.5 SURFACES |       | MARKED ONLY                         |  | CAGE NUMBER D78-5100-0771-5       |    |
| MODEL 3000 SERIES      |  | DRAWING NO. 78-5100-0771-5      |  | REV. H                              |       | SHT 3 OF 4                          |  | REV. H                            |    |

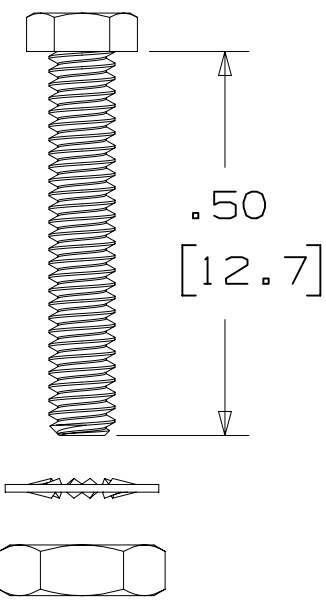
3M™ THREE-WALL HEADER, 3000 SERIES  
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE

MOUNTING HARDWARE



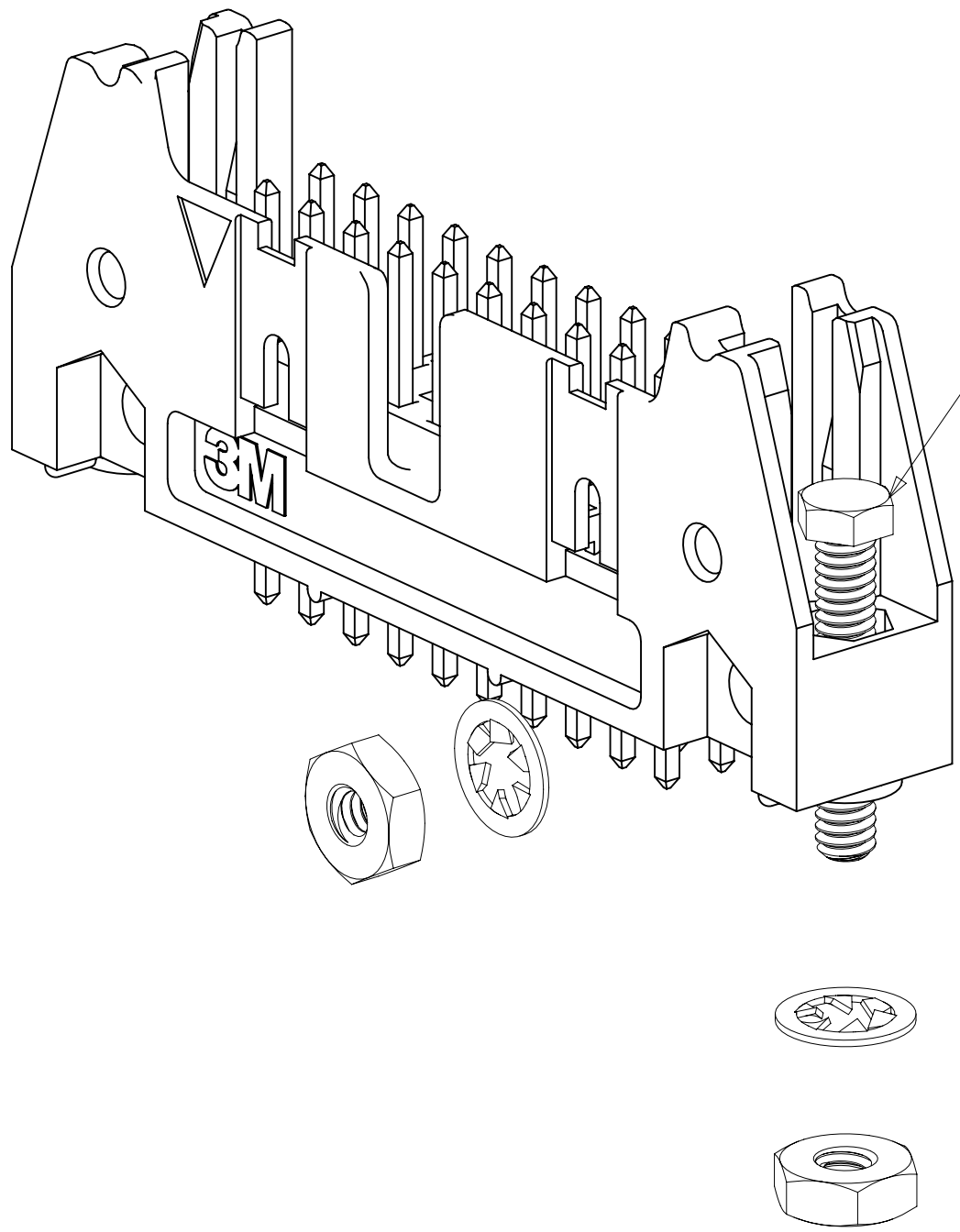
3341-5

(INSTALL FROM BOTTOM OF BOARD)  
PANHEAD THREAD CUTTING SCREW:  
#4-24 X 5/16"  
TYPE: USA STD BT, FEDERAL B6  
MATERIAL: STAINLESS STEEL



3341-6

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

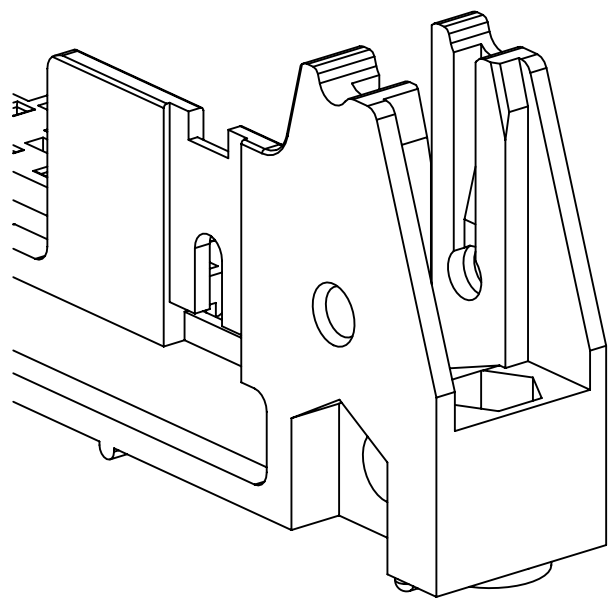


STRAIGHT VERSION INSTALL  
(MUST BE INSERTED PRIOR TO  
LATCH INSTALL)

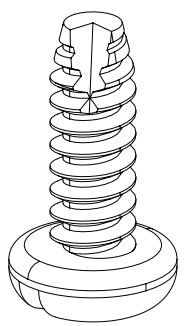
RIGHT ANGLE VERSION INSTALL

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

|                        |  |               |  |                                    |      |                            |            |              |      |
|------------------------|--|---------------|--|------------------------------------|------|----------------------------|------------|--------------|------|
| DESIGN REFERENCE       |  | NEXT ASSEMBLY |  | REV                                | ECO  | ISSUE DATE AND DESCRIPTION |            | DRFT         | CHKD |
| XREF                   |  | XREF          |  | DR                                 | CHKD | DATE                       | DATE       | DATE         | DATE |
|                        |  |               |  | CASTIGLIONE                        |      | AUG 05, 2014               | MFG        |              |      |
|                        |  |               |  |                                    |      |                            | R. SCHERER | SEP 05, 2014 |      |
| DIVISION               |  | DIVISION CODE |  | © 3M COPYRIGHT 2015                |      |                            |            |              |      |
| Interconnect Solutions |  | EMSD          |  | 3M Center<br>St. Paul,<br>MN 55144 |      |                            |            |              |      |
| DO NOT SCALE DRAWING   |  | SCALE 4/1     |  | TOLERANCES EXCEPT AS NOTED         |      |                            |            |              |      |
|                        |  |               |  | INCHES                             |      |                            |            |              |      |
|                        |  |               |  | .00 ± .01                          |      |                            |            |              |      |
|                        |  |               |  | .000 ± .005                        |      |                            |            |              |      |
|                        |  |               |  | .0000 ±                            |      |                            |            |              |      |
| THIRD ANGLE PROJECTION |  |               |  | MILLIMETERS                        |      |                            |            |              |      |
|                        |  |               |  | 0 ±                                |      |                            |            |              |      |
|                        |  |               |  | .0 ± .3                            |      |                            |            |              |      |
|                        |  |               |  | .00 ± .13                          |      |                            |            |              |      |
|                        |  |               |  | .000 ±                             |      |                            |            |              |      |
| MAX SURFACE ROUGHNESS  |  |               |  | CAGE NUMBER                        |      |                            |            |              |      |
|                        |  |               |  | D 78-5100-0771-5                   |      |                            |            |              |      |
|                        |  |               |  | MODEL 3000 SERIES                  |      |                            |            |              |      |
|                        |  |               |  | DET. YES NO SHT 4 OF 4             |      |                            |            |              |      |