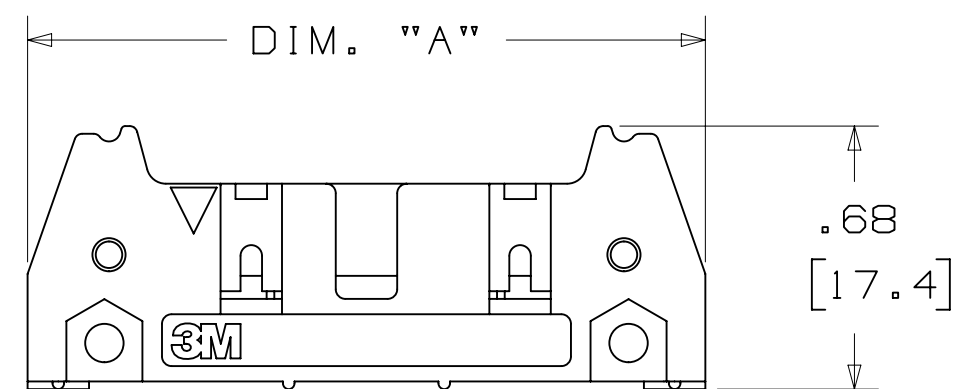
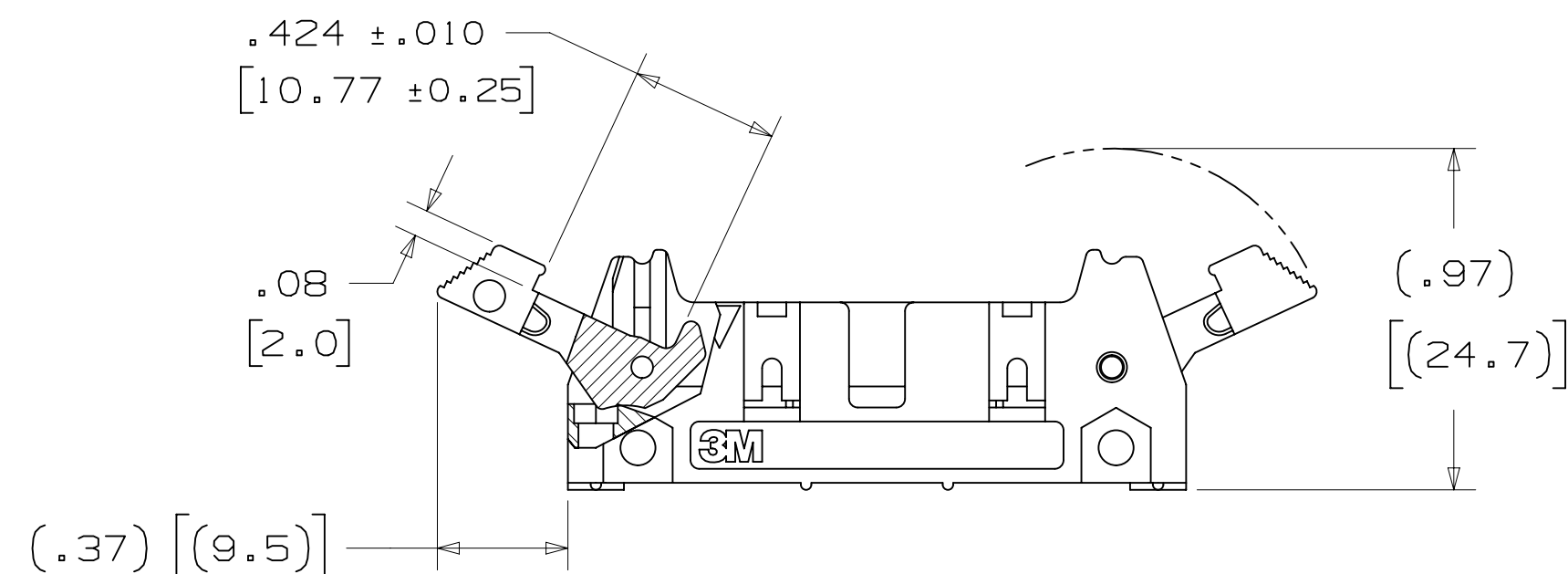


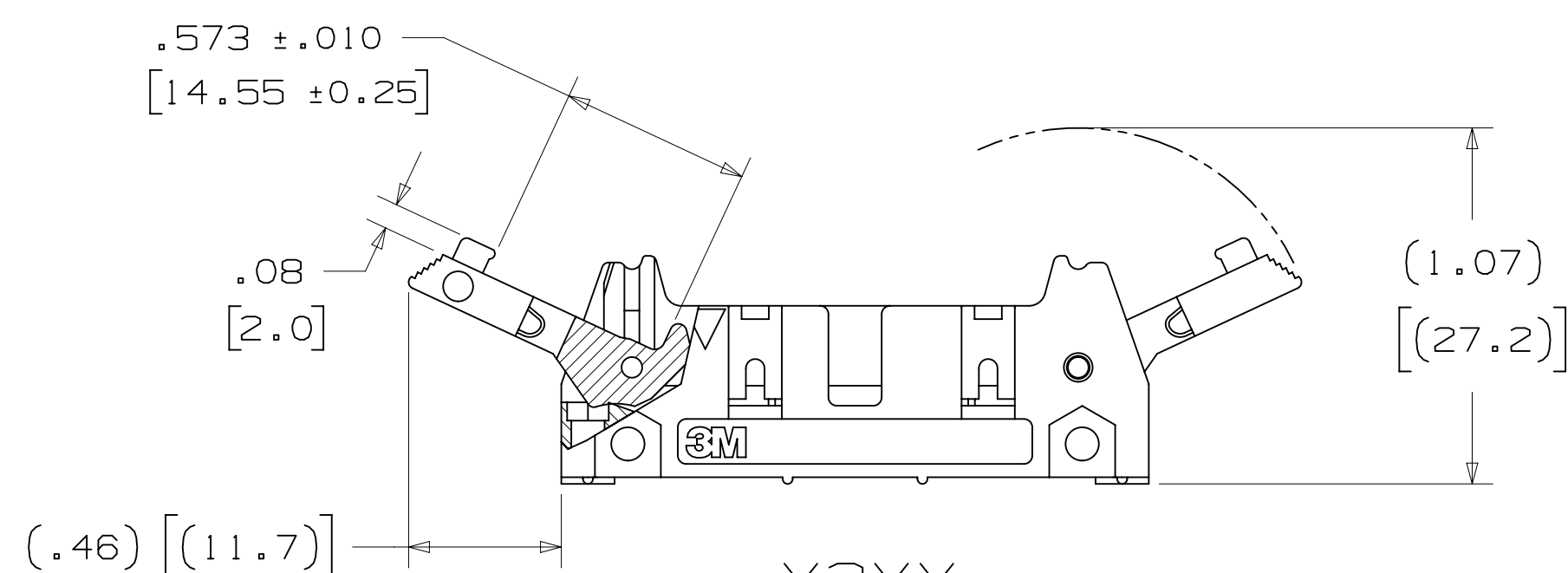
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



-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

3M PART NUMBER:  
(SEE TABLE 1)

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.
- \* OPTIONAL EJECTOR LATCHES.
- \* MOUNTING HOLES FOR SECURING HEADER TO BOARD.
- \* OPTIONAL POLARIZING POSTS AVAILABLE.
- \* HIGH TEMPERATURE INSULATOR SUITABLE FOR "NO LEAD" SOLDERING OPERATIONS.
- \* SUITABLE FOR REFLOW SOLDERING USING "PASTE IN HOLE" TECHNIQUES.
- \* SOLDER TAIL OPTION.

## 2 PHYSICAL :

```

INSULATOR:
  MATERIAL: GLASS FILLED POLYESTER (PCT)
FLAMMABILITY: UL94V-0
  COLOR: BLACK
  CONTACT:
    MATERIAL: COPPER ALLOY
    PLATING:
      UNDER PLATING: 100μ" [ 2.54μm ] NICKEL-OVERALL
      WIPING AREA: 30μ" [ 0.76μm ] AVG. GOLD
      SOLDER TAILS: 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                                         |  | CODE                       |  | DRFT                               | DATE |                                                                                                                                                                                                                        | MFG  | DATE |      |
| <del>ADDRESS</del>                              |  | <del>CODE</del>            |  | CHKD                               | DATE |                                                                                                                                                                                                                        | ASPL | DATE |      |
| DIVISION                                        |  | DIVISION CODE              |  | R. SCHERER                         |      | SEP 05, 2014                                                                                                                                                                                                           |      |      |      |
| Interconnect Solutions                          |  | EMSD                       |  | 3M                                 |      | © 3M COPYRIGHT 2015                                                                                                                                                                                                    |      |      |      |
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| SCALE<br>$\frac{2}{1}$                          |  | INCHES                     |  | TITLE                              |      | HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA                                                                                                                                                               |      |      |      |
|                                                 |  | THIRD ANGLE PROJECTION     |  | CAGE NUMBER                        |      | DRAWING NO.                                                                                                                                                                                                            |      |      |      |
| INTERPRET PER<br>ASME Y14.5 - 2009              |  | MILLIMETERS                |  | SIZE                               |      | D78-5100-0772-3                                                                                                                                                                                                        |      |      |      |
| MAX. SURFACE ROUGHNESS                          |  | .00 ± .13                  |  | MODEL                              |      | 3000 SERIES                                                                                                                                                                                                            |      |      |      |
| MAX. SURFACES                                   |  | .00 ± .3                   |  | DET.                               |      | YES YES YES NO SHT 1 OF                                                                                                                                                                                                |      |      |      |
| <input checked="" type="checkbox"/> MARKED ONLY |  | .000 ±                     |  | LISTS                              |      | YES YES YES NO SHT 1 OF                                                                                                                                                                                                |      |      |      |
| <del>MAX. SURFACES</del>                        |  | <del>ANGLE</del>           |  | <del>MODEL</del>                   |      | <del>3000 SERIES</del>                                                                                                                                                                                                 |      |      |      |

**UL**<sup>®</sup>  
**US**  
UL FILE NO: E68080

1. REGULATORY INFORMATION:  
ROHS COMPLIANT. SEE THE  
REGULATORY INFORMATION  
APPENDIX (RIA) IN THE  
"ROHS COMPLIANCE" SECTION  
OF [WWW.3MCONNECTORS.COM](http://WWW.3MCONNECTORS.COM) FOR  
COMPLIANCE INFORMATION.

2 IN THE EVENT OF CONFLICT  
BETWEEN THIS DATA AND THAT  
CONTAINED IN THE PRODUCT  
SPECIFICATION, THE PRODUCT  
SPECIFICATION TAKES PRECEDENT

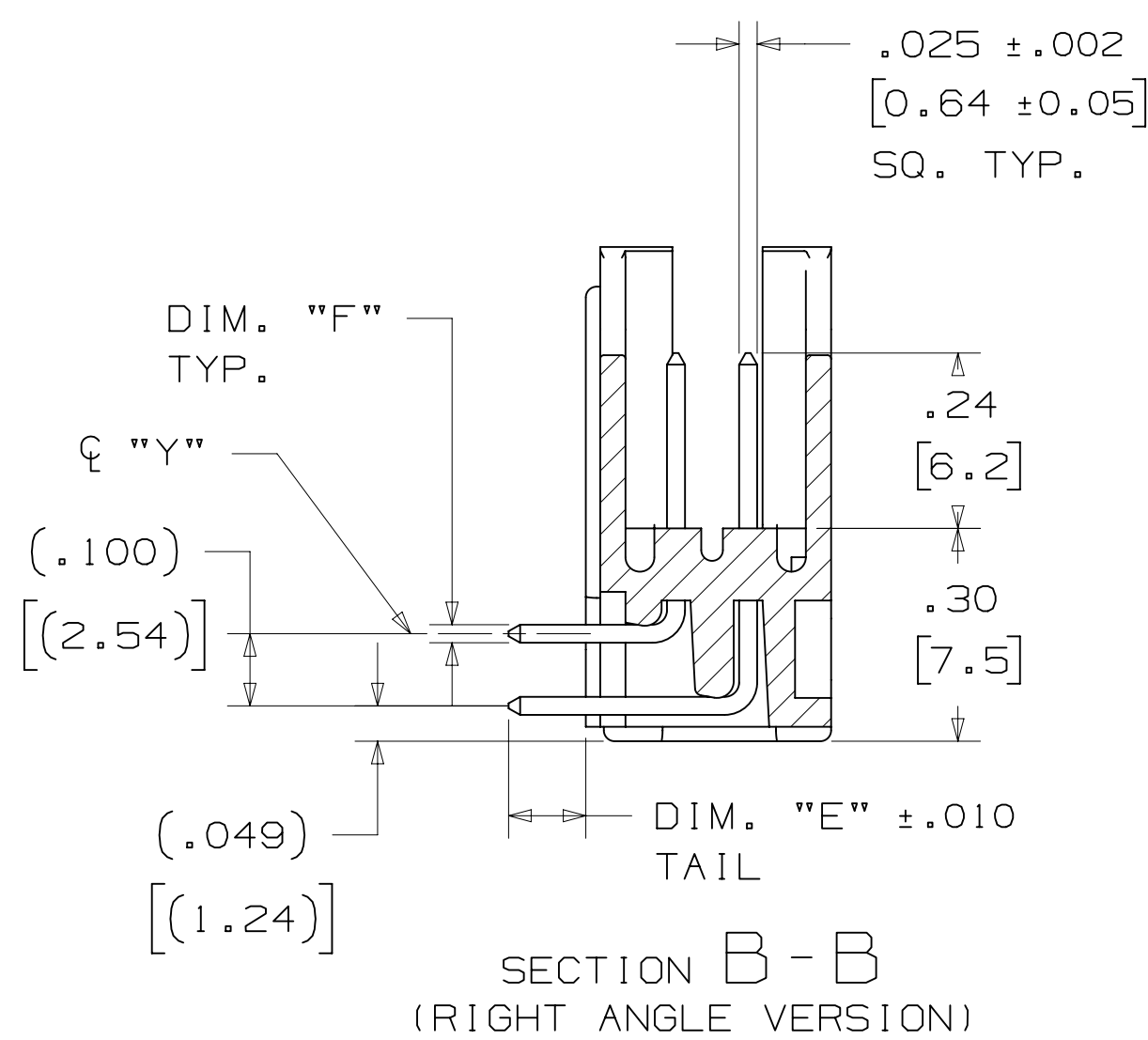
3 NOTCHES A & C WILL ACCOMODATE  
3M POLARIZING KEY: N3518.

4 MOUNTING HARDWARE:  
FROM SOLDER SIDE OF PC BOARD  
USE #4-24 THREAD CUTTING SCREW  
(3M PART #3341-5) WITH  
Ø.116 [2.95] MOUNTING HOLE.  
FOR RIGHT ANGLE VERSION ONLY:  
#2-56 BOLT AND NUT (3M PART  
#3341-6) WITH Ø.106 [2.69]  
MOUNTING HOLE MAY BE USED.

5 THE RECOMMENDED PCB HOLE SIZE  
FOR THE KINKED TAIL POSITIONS  
ON THE .112 SOLDER TAIL  
CONNECTOR IS  $\varnothing .035 \pm .002$ .  
(SEE K2 VERSION).

A

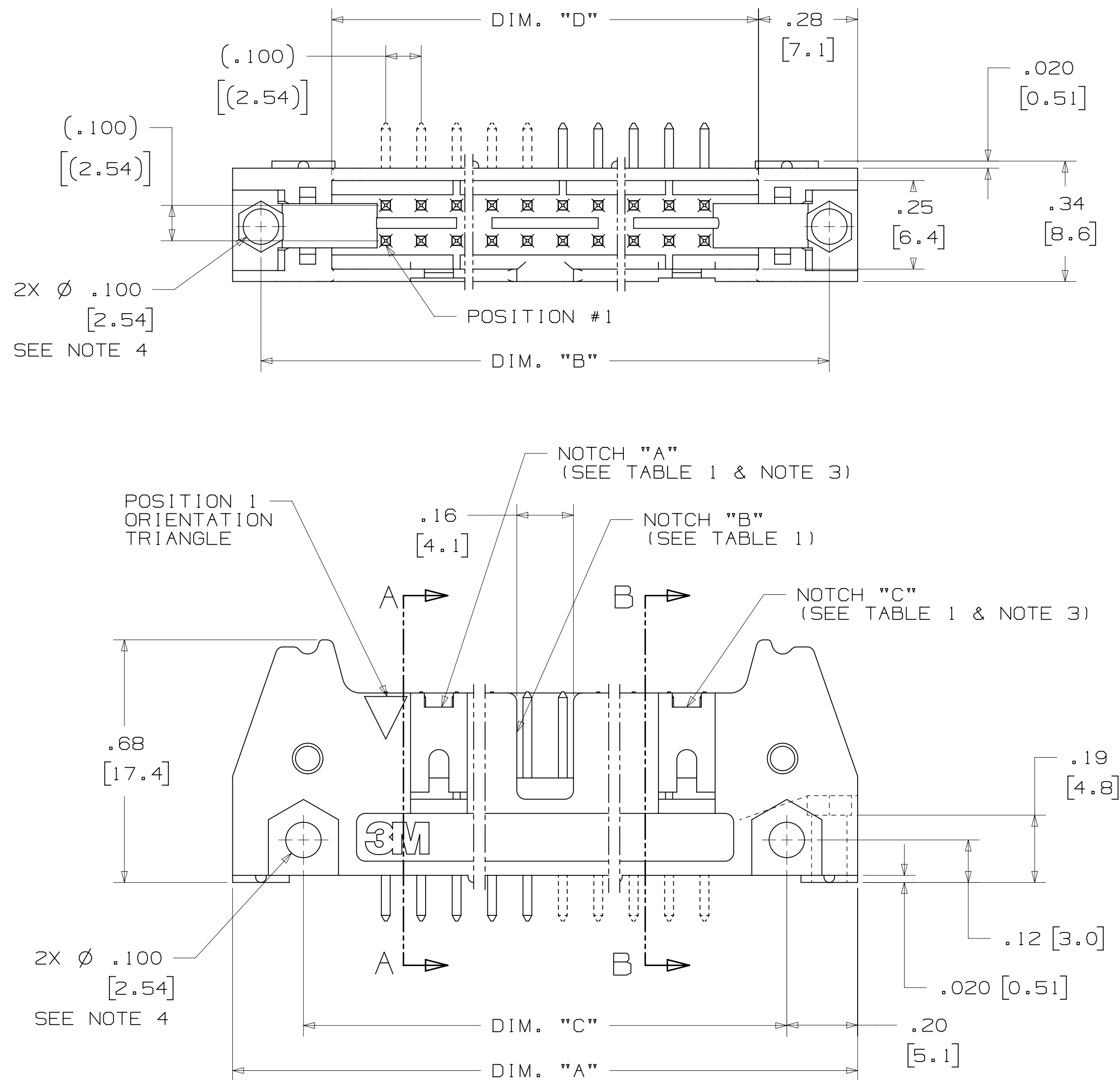
.100" X .100" LATCH/EJECTOR, STRAIGHT AND RIGHT ANGLE



| PIN QTY. | 3M PART NUMBER | DIM. "A"       | DIM. "B"        | DIM. "C"        | DIM. "D"      | POLARIZING NOTCHES | PIN QTY |
|----------|----------------|----------------|-----------------|-----------------|---------------|--------------------|---------|
| 06       | 3869           | 1.06 [ 27.0 ]  | .905 [ 22.99 ]  | .665 [ 16.89 ]  | .51 [ 12.9 ]  | B*                 | 06      |
| 08       | 3889           | 1.16 [ 29.5 ]  | 1.005 [ 25.53 ] | .765 [ 19.43 ]  | .61 [ 15.5 ]  | B*                 | 08      |
| 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      |
| 24       | 3627           | 1.96 [ 49.9 ]  | 1.805 [ 45.82 ] | 1.565 [ 39.75 ] | 1.41 [ 35.8 ] | ABC                | 24      |
| 26       | 3429           | 2.06 [ 52.4 ]  | 1.905 [ 48.36 ] | 1.665 [ 42.29 ] | 1.51 [ 38.3 ] | ABC                | 26      |
| 30       | 3440           | 2.26 [ 57.5 ]  | 2.105 [ 53.44 ] | 1.865 [ 47.37 ] | 1.71 [ 43.4 ] | ABC                | 30      |
| 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      |

\* AVAILABLE WITHOUT CENTER NOTCH B. CONTACT 3M

| TABLE 2                     |                                                     |               |                         |                      |                     |                                    |
|-----------------------------|-----------------------------------------------------|---------------|-------------------------|----------------------|---------------------|------------------------------------|
| 3M PART<br>NUMBER<br>SUFFIX | CONTACT TAIL                                        | DIM. "E"      | PIN CROSS SECTION       |                      |                     | DIM. "G"                           |
| -5XX2                       | .062 [ 1.57 ] THICK<br>PC BOARD                     | .112 [ 2.84 ] | DIM. "F"                | DIAGONALS            | CORNER RADIUS       | .035+/- .003 [ .89 ]<br>SEE NOTE 5 |
| -6XX2                       |                                                     |               | .0245+/- .0005 [ .622 ] | .028+/- .001 [ .71 ] | .0075 REF. [ .191 ] |                                    |
| -5X03                       | .094 [ 2.39 ] TO<br>.125 [ 3.18 ] THICK<br>PC BOARD | .155 [ 3.94 ] | .0245+/- .0005 [ .622 ] | .028+/- .001 [ .71 ] | .0075 REF. [ .191 ] | .035+/- .003 [ .89 ]               |
| -6X03                       |                                                     |               |                         |                      |                     |                                    |



|                                  |                                               |                                                      |                                                                                         |                |                            |                                                                                                                                                                                                                        |            |              |
|----------------------------------|-----------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|
| DESIGN REFERENCE                 |                                               | NEXT ASSEMBLY                                        | REV.                                                                                    | ECO            | ISSUE DATE AND DESCRIPTION |                                                                                                                                                                                                                        | DRFT       | CHKD         |
| <del>ACROSS</del>                |                                               | <del>DATE</del>                                      | BPR                                                                                     | CST            | IGL                        | ONE                                                                                                                                                                                                                    | MFG        | DATE         |
|                                  |                                               |                                                      | CHKD                                                                                    | DATE           | JUL 25, 2014               |                                                                                                                                                                                                                        | R. SCHERER | SEP 05, 2014 |
| DIVISION                         | DIVISION CODE                                 |                                                      | © 3M COPYRIGHT 2015                                                                     |                |                            |                                                                                                                                                                                                                        |            |              |
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| DO NOT SCALE DRAWING             | SCALE<br>$\frac{4}{1}$                        | TOLERANCES EXCEPT AS NOTED                           | <p>3M</p> <p>TITLE<br/>HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT &amp; RA</p> |                |                            |                                                                                                                                                                                                                        |            |              |
|                                  | INCHES<br>.00 ± .01<br>.000 ± .005<br>.0000 ± | MILLIMETERS<br>0 ±<br>.0 ± .3<br>.00 ± .13<br>.000 ± |                                                                                         |                |                            |                                                                                                                                                                                                                        |            |              |
| THIRD ANGLE PROJECTION           |                                               |                                                      |                                                                                         |                |                            |                                                                                                                                                                                                                        |            |              |
| INTERPRET PER ASME Y14.5 - 2009  |                                               |                                                      | CAGE NUMBER                                                                             | SIZE           | DRAWING NO.                |                                                                                                                                                                                                                        |            | REV.         |
| <del>MAX SURFACE ROUGHNESS</del> |                                               |                                                      | D                                                                                       | 78-5100-0772-3 | S                          |                                                                                                                                                                                                                        |            | S            |
| <del>OK SURFACES</del>           |                                               |                                                      | MODEL                                                                                   |                |                            | DET. LISTS YES X NO                                                                                                                                                                                                    |            |              |
| ✓ □ MARKED ONLY                  |                                               |                                                      | 3000 SERIES                                                                             |                |                            | SHT 2 OF 4                                                                                                                                                                                                             |            |              |

3M™ FOUR-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

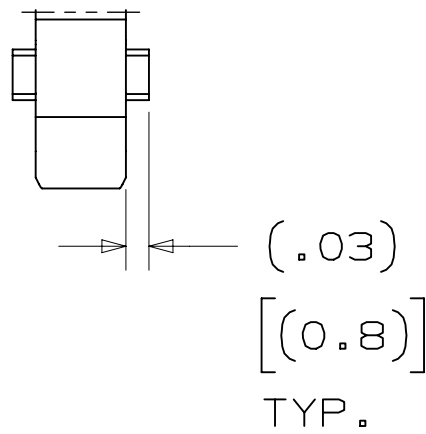
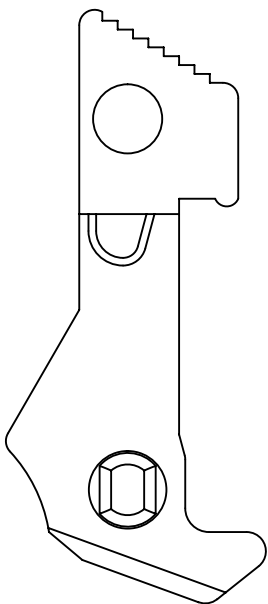
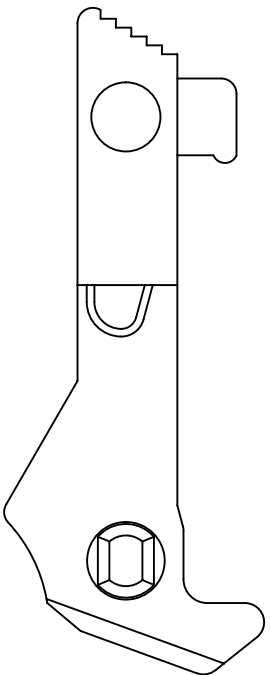
THIS SPEC SHEET DETAILS OUR STANDARD OFFERING.

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

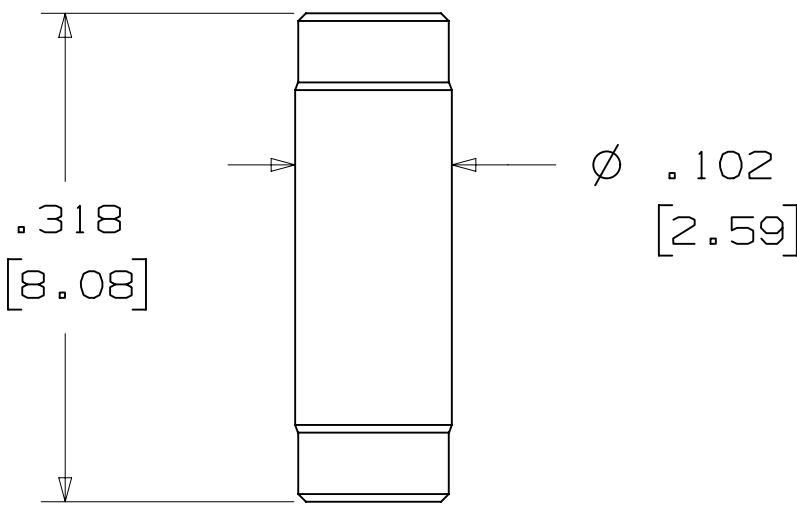


LONG SHORT

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 |

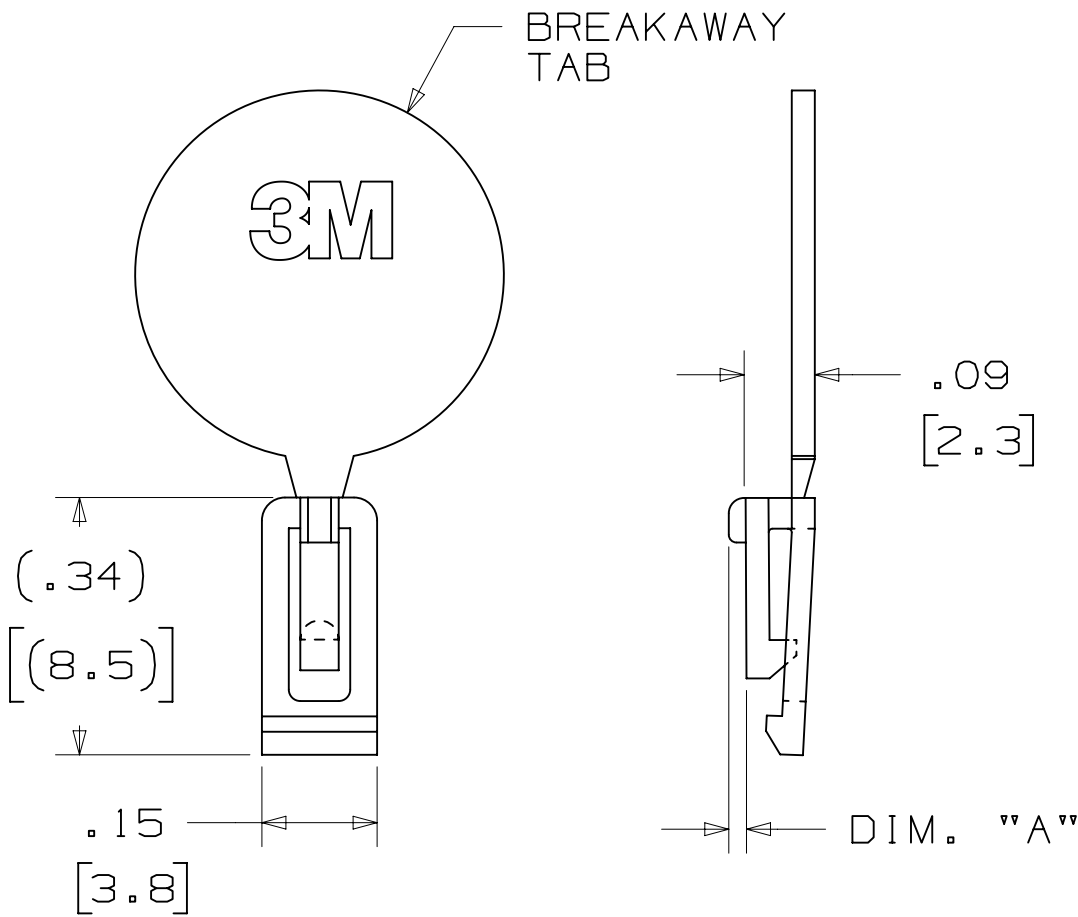
NOTE:  
INSERT POST INTO ONE MOUNTING HARDWARE HOLE ON BOTTOM OF HEADER. SET POST TO PROTRUDE .115 [2.92]

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 |  |
| 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



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

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

|                        |  |                                 |                            |                                               |      |      |
|------------------------|--|---------------------------------|----------------------------|-----------------------------------------------|------|------|
| S                      |  | 60056                           | MAR 06,2015                |                                               | JNC  | RS   |
| R                      |  | 56068                           | JUL 25,2014                |                                               | JNC  | RS   |
| REV                    |  | ECO                             | ISSUE DATE AND DESCRIPTION |                                               | DRFT | CHKD |
| DIV                    |  | CSTIGLIONE                      | DATE                       |                                               | DATE | DATE |
| CHKD                   |  |                                 | DATE                       |                                               | DATE | DATE |
| DIVISION               |  | DIVISION CODE                   |                            |                                               |      |      |
| Interconnect Solutions |  | EMSD                            |                            |                                               |      |      |
| DO NOT SCALE DRAWING   |  | SCALE 4 1                       |                            | TOLERANCES EXCEPT AS NOTED                    |      |      |
| THIRD ANGLE PROJECTION |  | INTERPRET PER ASME Y14.5 - 2009 |                            | INCHES .0 .00 .000 .0000 ± .01 ±.005 ±.0000 ± |      |      |
| MAX SURFACE ROUGHNESS  |  | SURFACES                        |                            | MILLIMETERS 0 ± .0 .00 ±.03 ±.013 ±.000 ±     |      |      |
| MARKED ONLY            |  | ANGLES                          |                            |                                               |      |      |
| CAGE NUMBER            |  | SIZE                            | DRAWING NO.                | REV.                                          |      |      |
| D                      |  | 78-5100-0772-3                  | S                          |                                               |      |      |
| MODEL                  |  | 3000 SERIES                     | DET                        |                                               | YES  | NO   |
|                        |  |                                 | SHT                        |                                               | 3    | OF 4 |

3M™ FOUR-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



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

|                                 |  |               |  |                            |  |                              |  |                                                                                                                                                                                                                        |  |              |      |
|---------------------------------|--|---------------|--|----------------------------|--|------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|------|
| S                               |  | 60056         |  | MAR 06, 2015               |  | JNC                          |  | RS                                                                                                                                                                                                                     |  |              |      |
| R                               |  | 56068         |  | JUL 25, 2014               |  | JNC                          |  | RS                                                                                                                                                                                                                     |  |              |      |
| DESIGN REFERENCE                |  | NEXT ASSEMBLY |  | REV                        |  | ECO                          |  | ISSUE DATE AND DESCRIPTION                                                                                                                                                                                             |  | DRFT         | CHKD |
| ACROSS CODES                    |  |               |  | DRFT                       |  | CASTIGLIONE                  |  | DATE                                                                                                                                                                                                                   |  | JUL 25, 2014 |      |
|                                 |  |               |  | CHKD                       |  |                              |  | MFG                                                                                                                                                                                                                    |  | DATE         |      |
|                                 |  |               |  |                            |  |                              |  | APPROVAL                                                                                                                                                                                                               |  | DATE         |      |
|                                 |  |               |  |                            |  |                              |  | R. SCHERER                                                                                                                                                                                                             |  | SEP 05, 2014 |      |
| DIVISION                        |  | DIVISION CODE |  | EMSD                       |  | 3M                           |  | © 3M COPYRIGHT 2015                                                                                                                                                                                                    |  |              |      |
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| DO NOT SCALE DRAWING            |  | SCALE 4 1     |  | INCHES                     |  | TITLE                        |  | HEADER, 4-WALL, .100 X .100 LATCH/EJECTOR, STRAIGHT & RA                                                                                                                                                               |  |              |      |
| THIRD ANGLE PROJECTION          |  |               |  | MILLIMETERS                |  | CAGE NUMBER                  |  | D 78-5100-0772-3                                                                                                                                                                                                       |  | REV.         |      |
| INTERPRET PER ASME Y14.5 - 2009 |  |               |  | MAX SURFACE ROUGHNESS      |  | SIZE                         |  | DRAWING NO.                                                                                                                                                                                                            |  |              |      |
| MAX SURFACE ROUGHNESS           |  |               |  | SURFACES                   |  | MODEL                        |  | 3000 SERIES                                                                                                                                                                                                            |  | DET.         |      |
| MARKED ONLY                     |  |               |  | ANGLES                     |  |                              |  |                                                                                                                                                                                                                        |  | LISTS        |      |
|                                 |  |               |  |                            |  |                              |  |                                                                                                                                                                                                                        |  | YES NO       |      |
|                                 |  |               |  |                            |  |                              |  |                                                                                                                                                                                                                        |  | SHT 4 OF 4   |      |