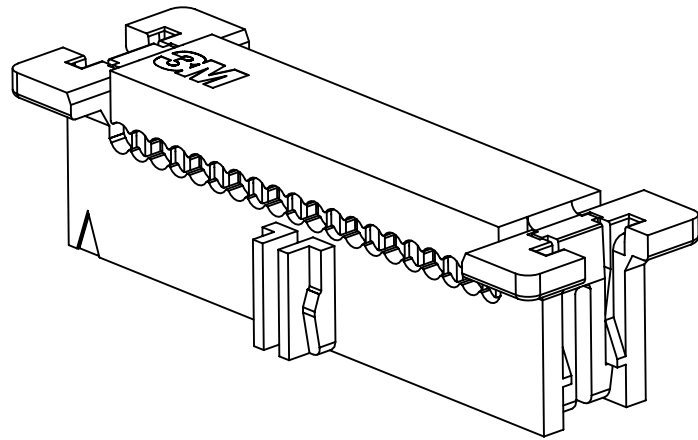
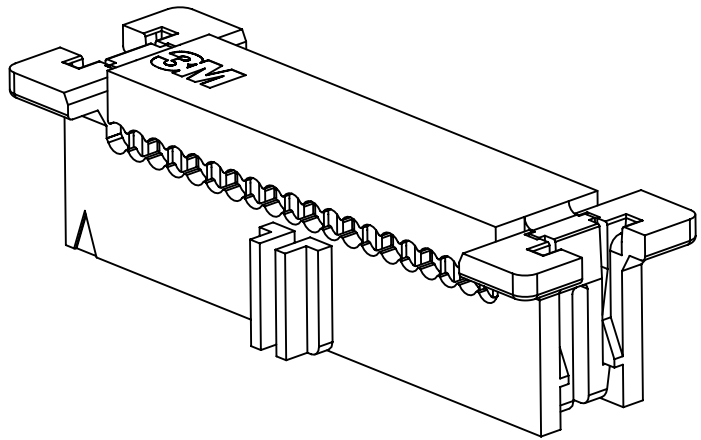


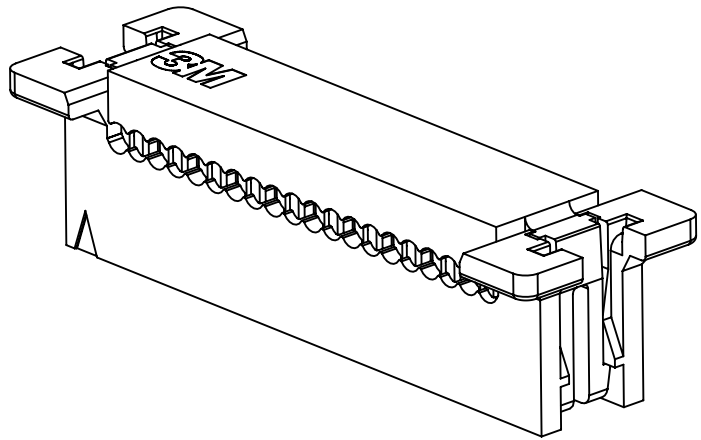
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY,  
1.27mm (0.050") PITCH, 451 SERIES



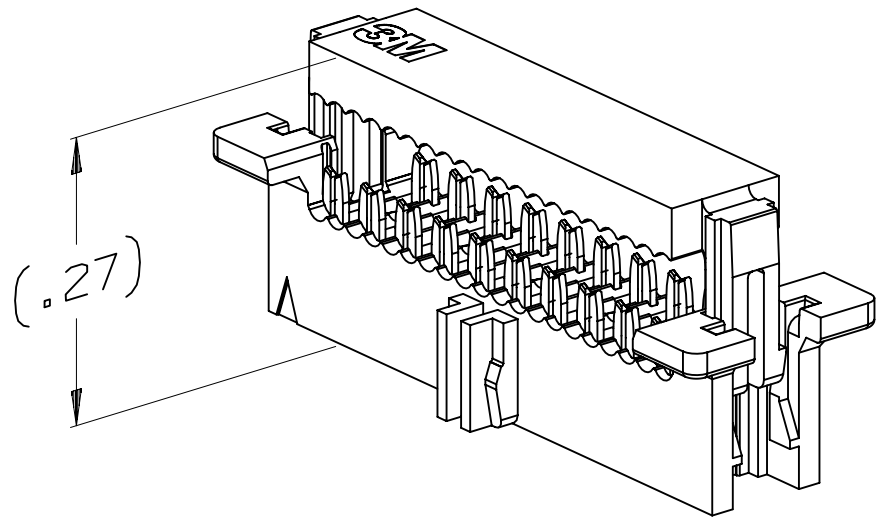
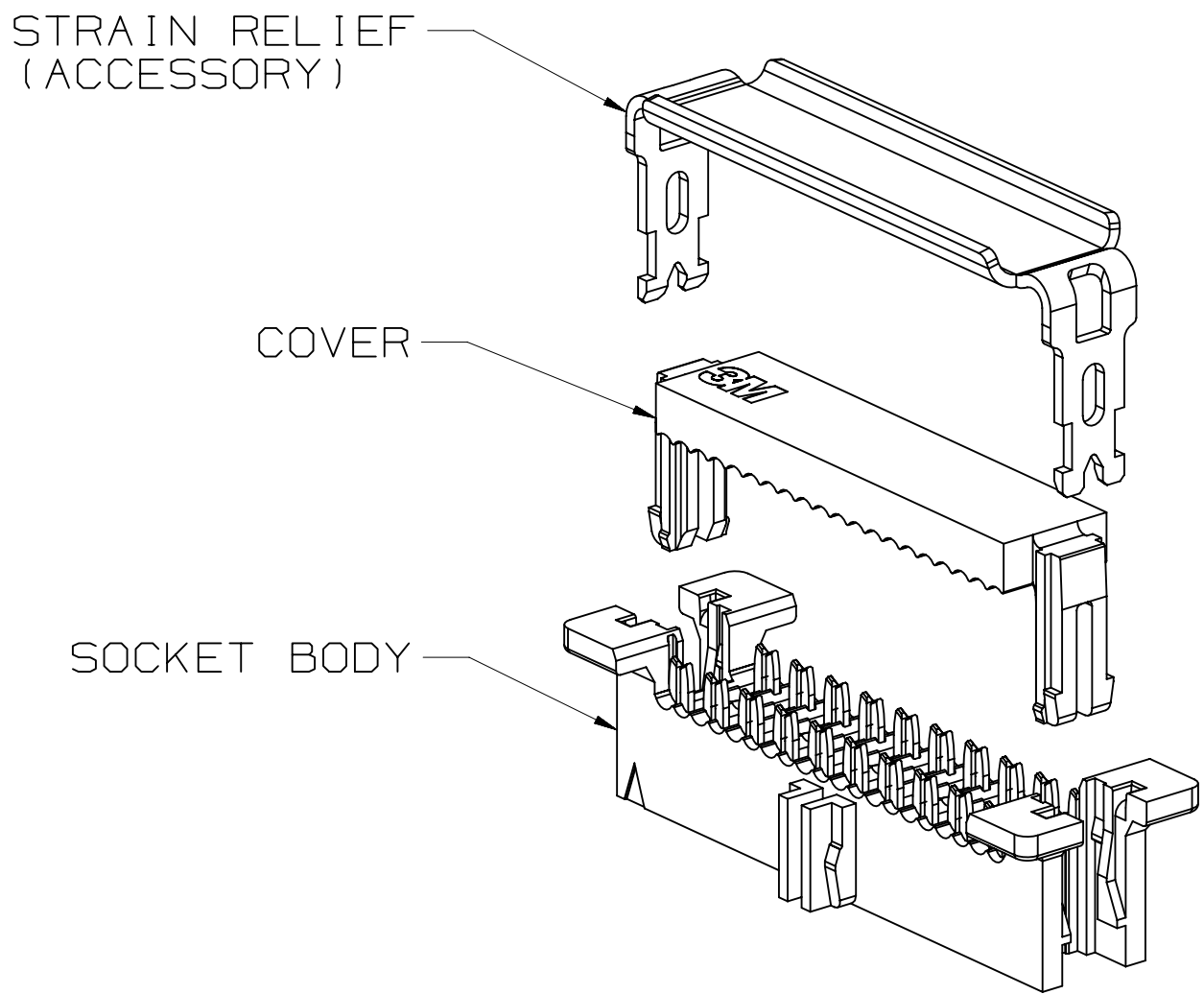
CENTER POLARIZATION  
AND FRICTION LATCH



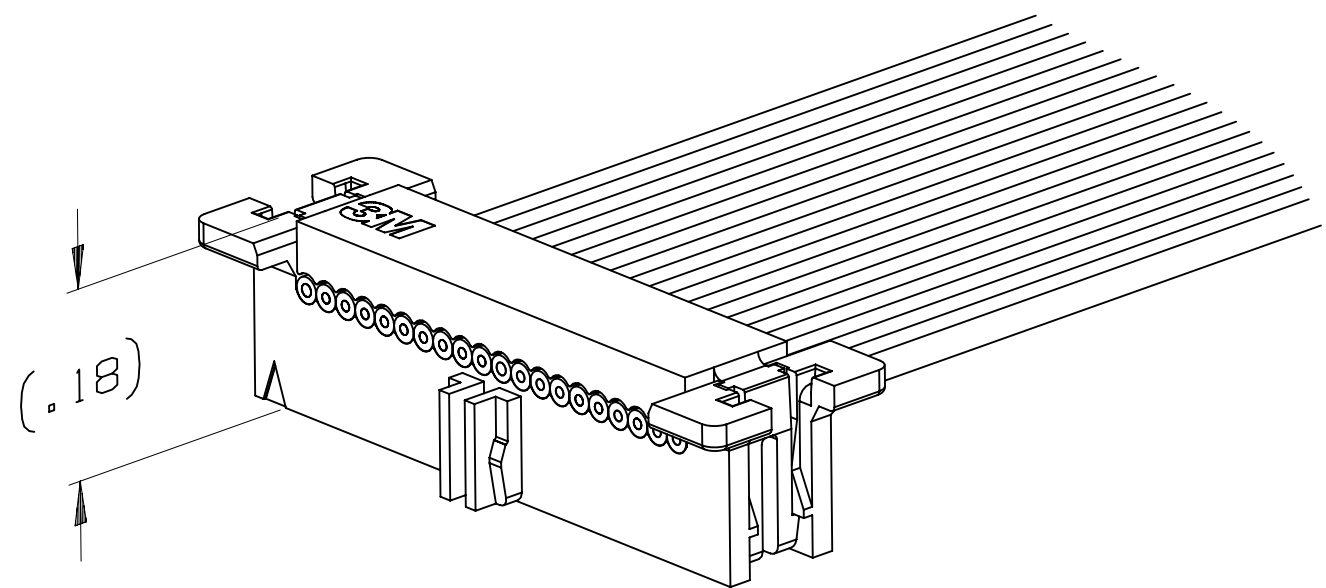
CENTER POLARIZATION  
AND NO FRICTION LATCH



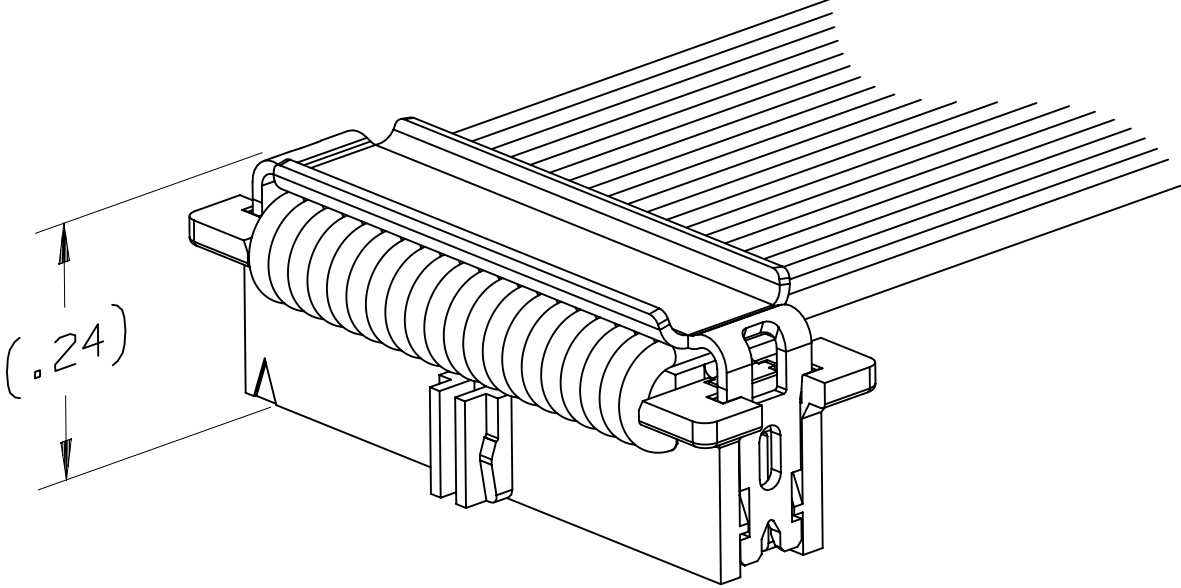
NO CENTER POLARIZATION  
AND NO FRICTION LATCH



PRE-POSITIONED COVER



NO STRAIN RELIEF



WITH OPTIONAL  
STRAIN RELIEF

TERMINATED  
CONNECTOR

3M ELECTRONIC MATERIALS SOLUTIONS DIVISION  
INTERCONNECT SOLUTIONS  
<http://www.3mconnectors.com>

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

| PERFORMANCE:                          |                                                                                                                                                                                                                                            |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CURRENT RATING:                       | 1.0 A, ALL LINES ENERGIZED,<br>30°C TEMP RISE PER EIA 364-70<br>1.5 A, 6 LINES ENERGIZED,<br>30°C TEMP RISE PER EIA 364-70<br>2.5 A, 1 LINE ENERGIZED,<br>30°C TEMP RISE PER EIA 364-70<br>1.0 A, UL & CUL NOT FOR<br>CURRENT INTERRUPTION |
| UL & CUL VOLTAGE<br>RATING:           | 125V <sub>ac</sub>                                                                                                                                                                                                                         |
| INSULATION<br>RESISTANCE:             | > 1 × 10 <sup>9</sup> Ohms AT 500 VDC                                                                                                                                                                                                      |
| WITHSTANDING<br>VOLTAGE:              | 1250VACrms AT SEA LEVEL                                                                                                                                                                                                                    |
| OPERATING<br>TEMPERATURE:             | -65°C to +125°C                                                                                                                                                                                                                            |
| UL & CUL<br>OPERATING<br>TEMPERATURE: | +125°C                                                                                                                                                                                                                                     |

- NOTES
- MATERIAL:  
BODY: PBT, UL94V-0  
COVER: PBT, UL94V-0  
STRAIN RELIEF: STAINLESS  
STEEL  
CONTACTS: BeCu ALLOY.
  - PLATING:  
50-150μ" NICKEL UNDERPLATE  
30 = 30μ" MIN. GOLD ON WIPING  
AREA  
00 = FLASH GOLD ON WIPING AREA.
  - RIBBON CABLE COMPATIBILITY:  
GENERAL:  
0.025" PITCH PVC, 30 AWG,  
SOLID OR 7 STRAND.  
RECOMMENDED:  
3M 3447 AND 3754 SERIES  
CABLE.
  - MATING COMPATIBILITY:  
3M 1.27mm (0.050"),  
SERIES 452 HEADER WITH  
LATCH/EJECT OPTION.  
TECH SHEET 2437
  - 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  
(RIA E1 & C1 APPLY)
  - IN THE EVENT OF CONFLICT  
BETWEEN THIS DATA AND THAT  
CONTAINED IN THE PRODUCT  
SPECIFICATION, THE PRODUCT  
SPECIFICATION TAKES PRECEDENT.
  - REFERENCE RELATED DOCUMENTS:  
PRODUCT SPECIFICATION:  
3M DOC. ID# 78-5102-0091-4.
  - TOOLING AND INSTALLATION  
INSTRUCTIONS:  
3M DOC. ID# 78-9101-8937-8.
  - OTHER PIN COUNTS AVAILABLE  
UPON REQUEST. CONTACT 3M.
  - PACKAGING:  
SOCKET: TRAY  
COVER: BAG

ORDERING INFORMATION  
FOR RAPID INSTALLATION ON  
RIBBON CABLE APPLICATIONS

451 XX - 0 X 0 0 XX

SERIES

POSITION COUNT  
04 - 30  
SEE TABLE 1

PLATING  
00 = AU FLASH  
30 = 30μ" GOLD

OPTIONAL FEATURES  
0 = NONE SPECIFIED

PACKAGING  
0 = STANDARD (TRAYS)

CENTER POLARIZATION / FRICTION LATCH  
0 = NO CENTER POLARIZATION (CP) (04-30 POS.)  
1 = CP NO FRICTION LATCH (08 - 30 POS.)  
2 = CP WITH FRICTION LATCH (08 - 30 POS.)

NOTE:  
FRICTION LATCH (OPTION 2) IS NOT SUITABLE  
FOR HEADER WITH LATCH EJECT OPTION

ACCESSORY: STRAIN RELIEF  
3448-451XX

POSITION COUNT  
04 - 30

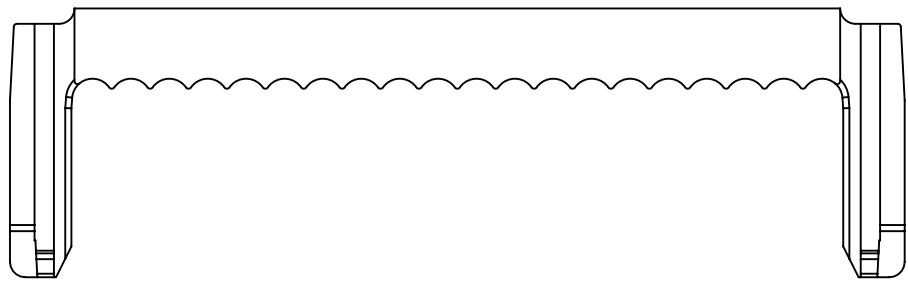
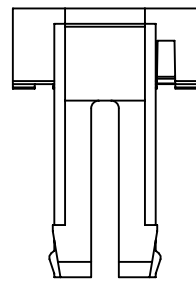
APPLICATION TOOLING:  
ALUMINUM: 3443-82-XX

POSITION COUNT  
04 - 30

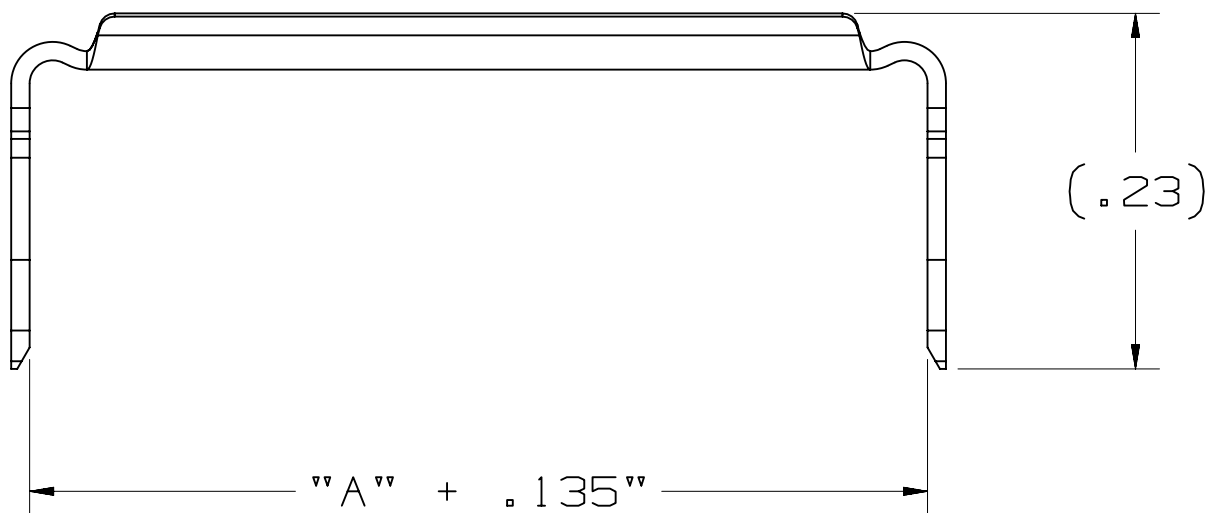
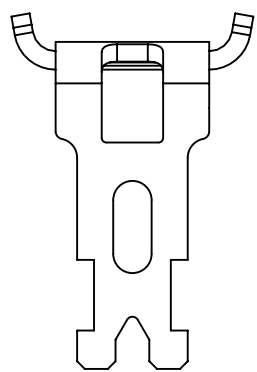
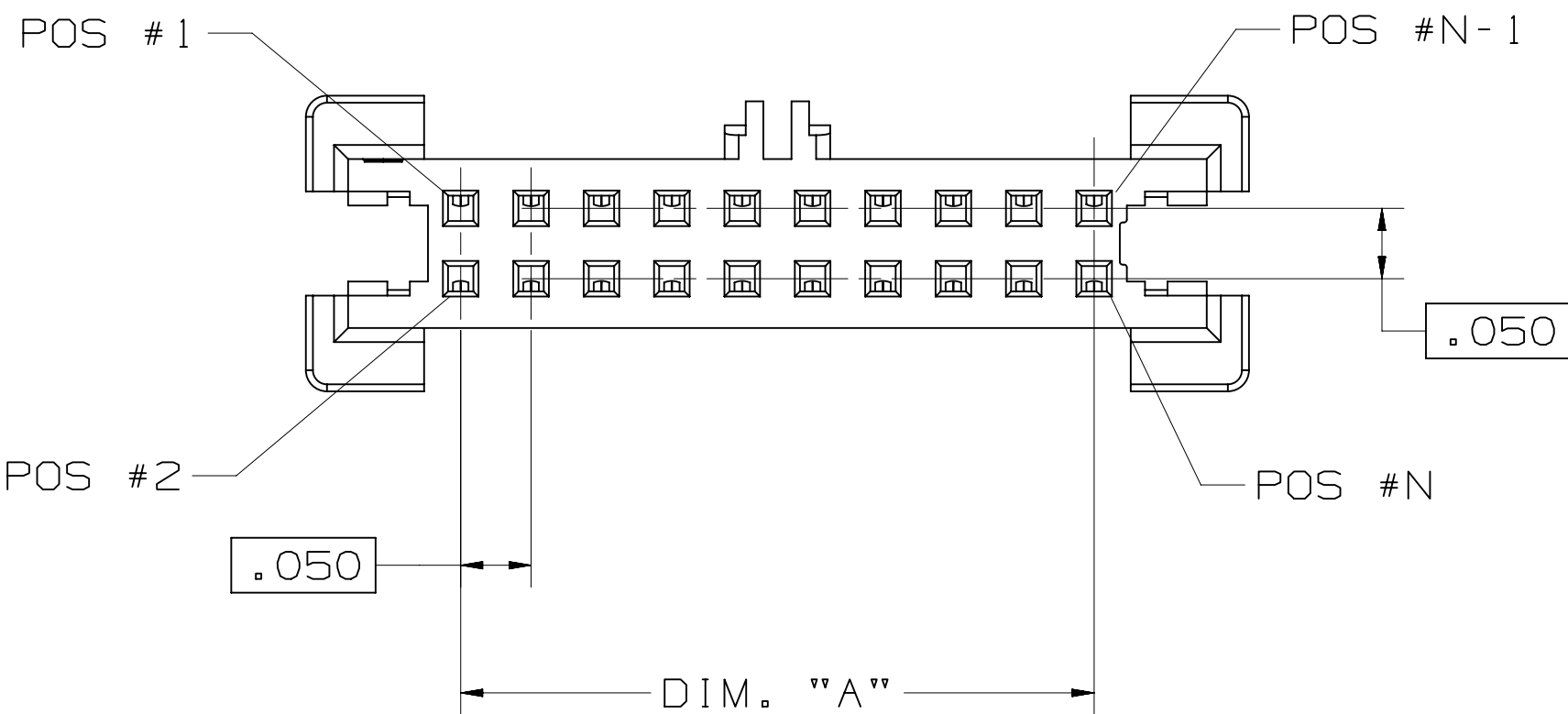
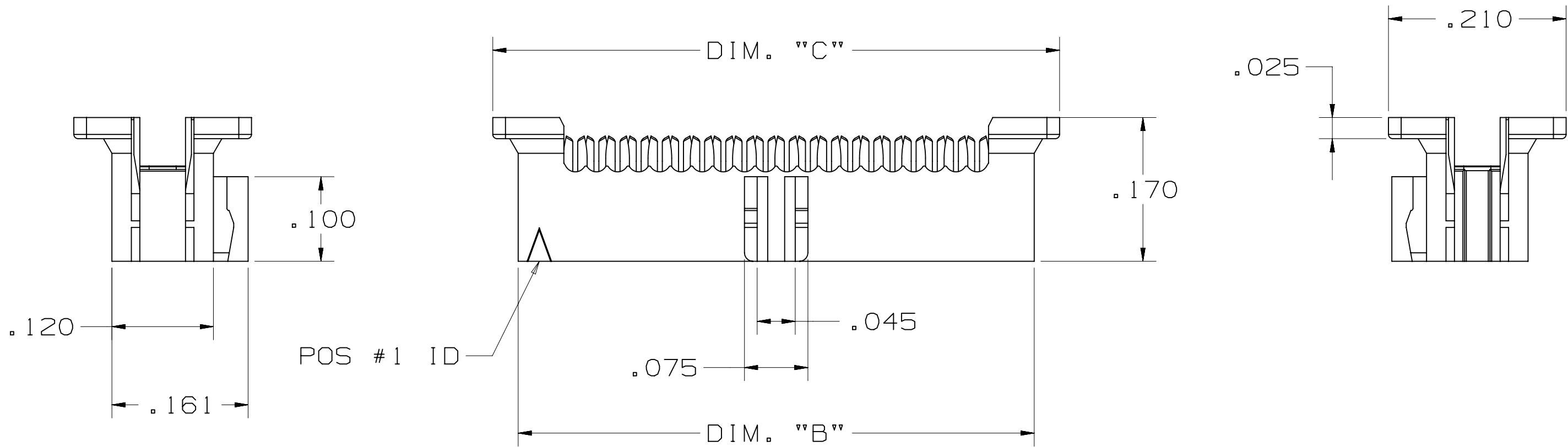
|                                     |  |                                           |  |                             |              |                                                                                                                                                                                                                        |  |             |      |
|-------------------------------------|--|-------------------------------------------|--|-----------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|------|
| 78-5100-2396-9<br>78-5100-2437-1    |  | NEXT ASSEMBLY                             |  | REV                         | ECO          | ISSUE DATE AND DESCRIPTION                                                                                                                                                                                             |  | DRFT        | CHKD |
| DESIGN CODES                        |  | DIVISION CODE                             |  | DATE                        | DATE         | DATE                                                                                                                                                                                                                   |  | DATE        | DATE |
| Interconnect Solutions              |  | ISD                                       |  | ARM                         | FEB 11, 2011 | MFG                                                                                                                                                                                                                    |  | DATE        | DATE |
| DO NOT SCALE DRAWING                |  | SCALE 6-1                                 |  | CHKD                        | DATE         | APPROVAL                                                                                                                                                                                                               |  | DATE        | DATE |
| THIRD ANGLE PROJECTION              |  | TOLERANCES EXCEPT AS NOTED                |  | DIVISION                    |              | 3M                                                                                                                                                                                                                     |  | 3M          |      |
| INTERPRET PER ASME Y14.5 - 2009     |  | INCHES .00 ± .01 .000 ± .010 .0000 ± .005 |  | MILLIMETERS 0 ± .000 ± .005 |              | THIS DOCUMENT AND THE INFORMATION IT CONTAINS ARE 3M PROPERTY AND MAY NOT BE REPRODUCED OR FURTHER DISTRIBUTED WITHOUT 3M PERMISSION, OR USED OR DISCLOSED OTHER THAN FOR 3M AUTHORIZED PURPOSES. ALL RIGHTS RESERVED. |  | TITLE       |      |
| MAX SURFACE ROUGHNESS 12.5 SURFACES |  | MARKED ONLY                               |  | CAGE NUMBER                 |              | SIZE                                                                                                                                                                                                                   |  | DRAWING NO. |      |
| MODEL                               |  | LISTS                                     |  | YES                         |              | NO                                                                                                                                                                                                                     |  | SHT 1 OF 2  |      |

UL FILE NO: E68080

3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY,  
1.27mm (0.050") PITCH, 451 SERIES



COVER



ACCESSORY - STRAIN RELIEF  
PART NUMBER 3448-451XX

| TABLE 1       |         |         |         |
|---------------|---------|---------|---------|
| No. Positions | Dim "A" | Dim "B" | Dim "C" |
| 4             | .050    | .210    | .270    |
| 6             | .100    | .260    | .320    |
| 8             | .150    | .310    | .370    |
| 10            | .200    | .360    | .420    |
| 12            | .250    | .410    | .470    |
| 14            | .300    | .460    | .520    |
| 16            | .350    | .510    | .570    |
| 20            | .450    | .610    | .670    |
| 30            | .700    | .860    | .920    |

|                                  |  |                       |  |                            |  |                |     |                            |  |             |      |
|----------------------------------|--|-----------------------|--|----------------------------|--|----------------|-----|----------------------------|--|-------------|------|
| 78-5100-2396-9<br>78-5100-2437-1 |  | DESIGN REFERENCE      |  | NEXT ASSEMBLY              |  | REV            | ECO | ISSUE DATE AND DESCRIPTION |  | DRFT        | CHKD |
| DIVISION                         |  | SCALE                 |  | TOLERANCES EXCEPT AS NOTED |  | DATE           |     | DATE                       |  | DATE        |      |
| Interconnect Solutions           |  | 4                     |  | INCHES                     |  | FEB 11,2011    |     | FEB 11,2011                |  | FEB 11,2011 |      |
| DO NOT SCALE DRAWING             |  | 1                     |  | THIRD ANGLE PROJECTION     |  | APPROVAL       |     | DATE                       |  | DATE        |      |
| INTERPRET PER ASME Y14.5 - 2009  |  | MAX SURFACE ROUGHNESS |  | CAGE NUMBER                |  | SIZE           |     | DRAWING NO.                |  | REV.        |      |
| SURFACES                         |  | MARKED ONLY           |  | D                          |  | 78-5100-2436-3 |     | F                          |  | SHT 2 OF 2  |      |
| MODEL                            |  | LISTS                 |  | YES                        |  | NO             |     | SHT 2 OF 2                 |  |             |      |

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

3M:

[45116-010000](#) [45108-000030](#) [45108-010000](#) [45108-020000](#) [45112-010030](#) [45112-020000](#) [45120-020030](#) [45130-020030](#) [45130-010000](#) [45130-020000](#) [45110-010000](#) [45114-010030](#) [45112-010000](#) [45114-010000](#) [45112-020030](#) [45114-020000](#) [45104-000000](#) [45120-010000](#) [45110-000000](#) [45120-020000](#) [45116-020030](#) [45130-000000](#) [45108-000000](#) [45112-000000](#) [45130-000030](#) [45108-010030](#) [45116-010030](#) [45120-010030](#) [45104-000030](#) [45106-000030](#) [45120-000000](#) [45116-020000](#) [45116-000000](#) [45114-000000](#) [45110-020030](#) [45106-000000](#) [45108-020030](#) [45114-020030](#) [45120-000030](#) [45116-000030](#) [45110-000030](#) [45110-010030](#) [45110-020000](#) [45130-010030](#) [45114-000030](#) [45112-000030](#)