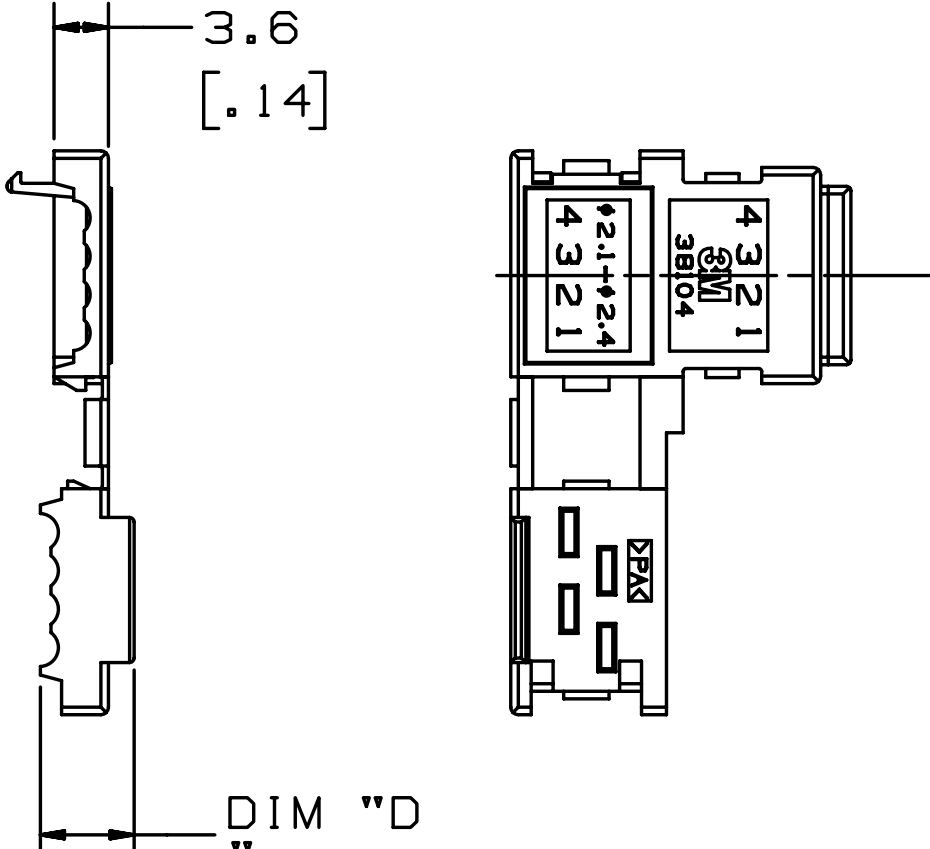
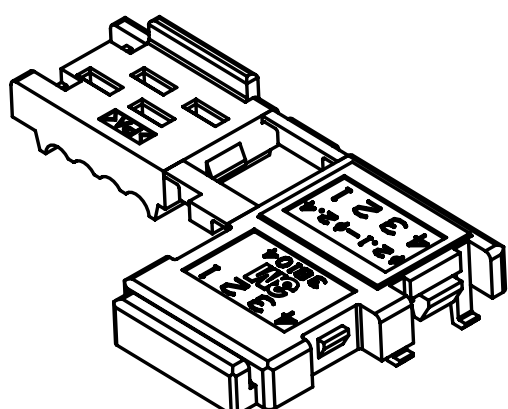
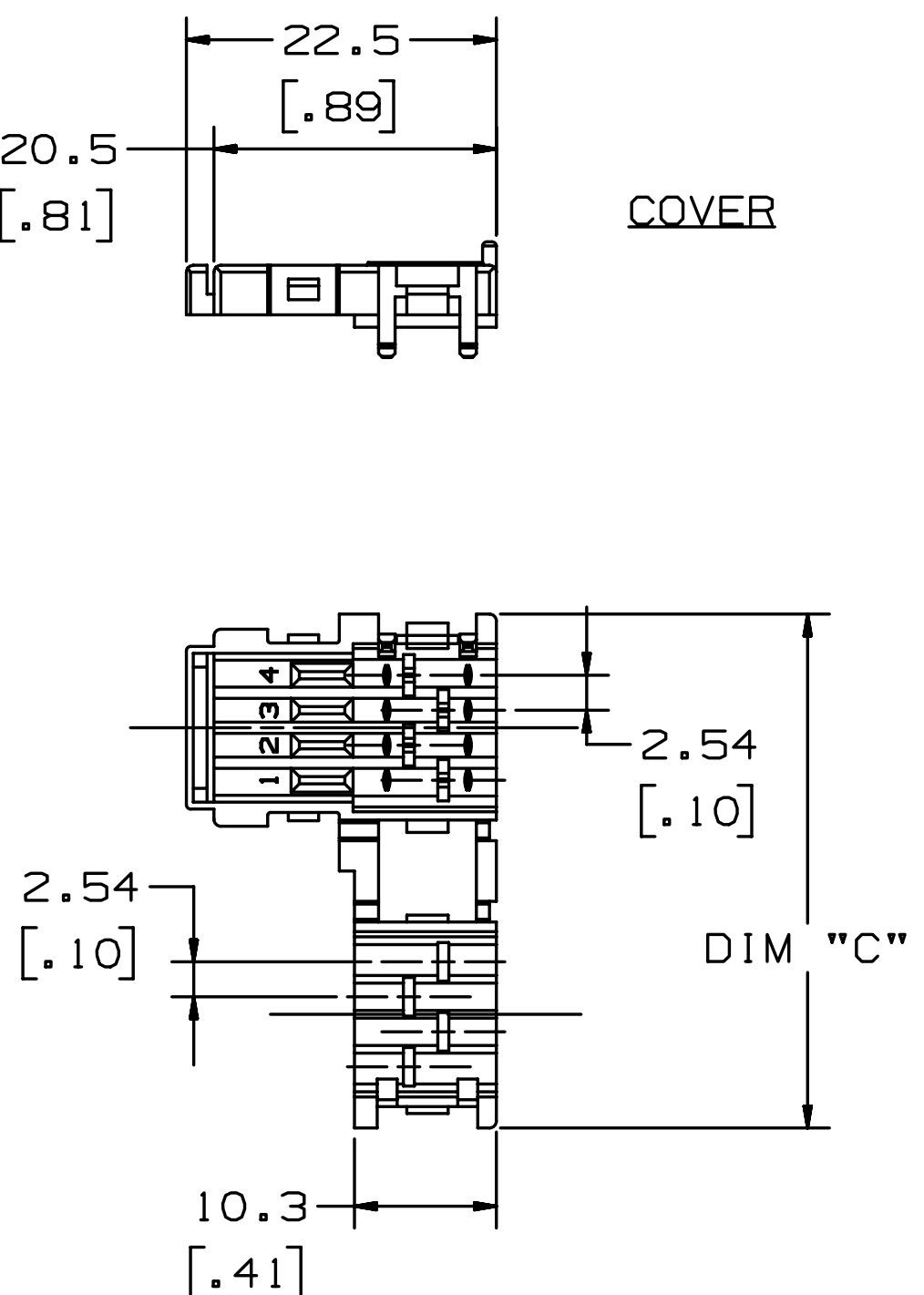
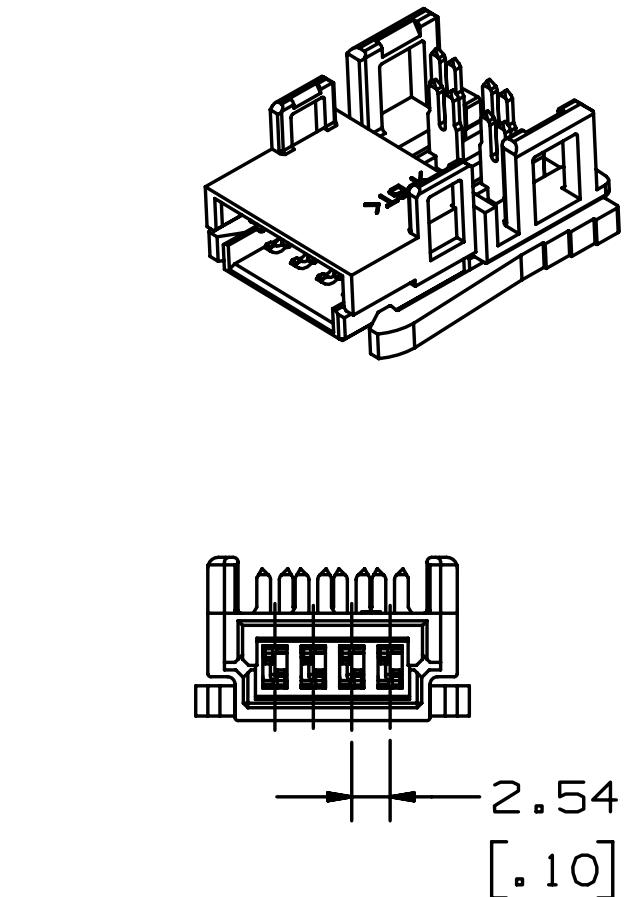
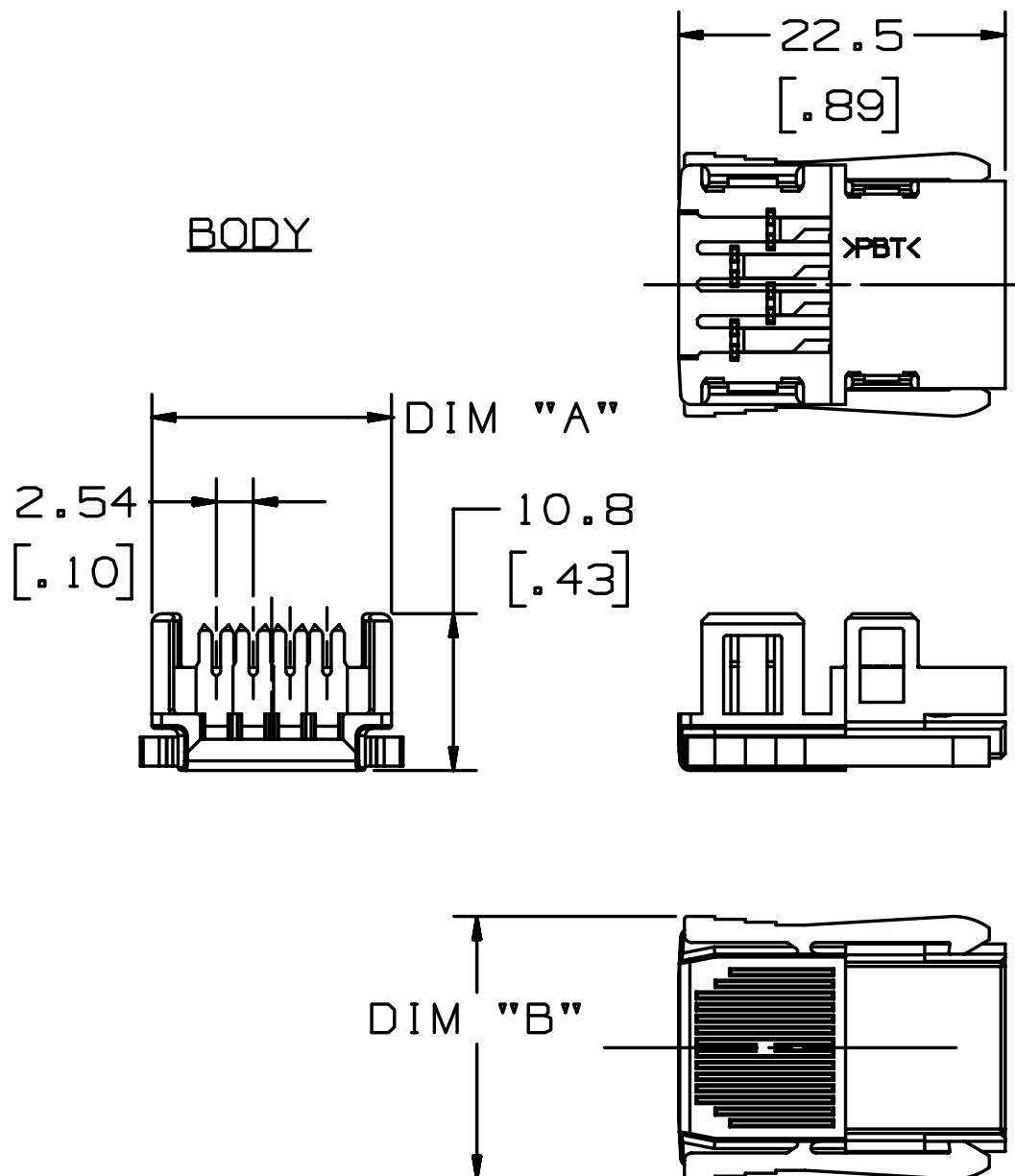


3M™ LINK CONNECTOR, 2.54mm[.100"], WIREMOUNT, HERMAPHRODITIC, 381 SERIES

- Notes:
- 1) Material:  
Body: PBT, UL94V-0  
Cover: Nylon  
Contacts: Copper Alloy
  - 2) Plating:  
1.27  $\mu$ " Nickel underplate  
0.2  $\mu$ "min. Gold with Lubricant in wiping area  
Nickel on IDC
  - 3) Wire Accommodation:  
18 AWG [0.75mm<sup>2</sup>] Tinned, solid, 7 or 19 stranded, PVC  
20 AWG [0.50mm<sup>2</sup>] Tinned, solid, 7 stranded, PVC  
22 AWG [0.30mm<sup>2</sup>] Tinned, solid, 7 stranded, PVC
  - 4) Marking:  
3M Logo, Part Number, Position Identification'  
Insulator Material
  - 5) Mating Compatibility: 381 and 382 SERIES
  - 6) Regulatory:  
UL File No.: E68080 (18 AWG only)
  - RoHS Compliant:  
See the Regulatory Information Appendix (RIA) in the "RoHS Compliance" section of [www.3MConnector.com](http://www.3MConnector.com) for compliance information. (RIA E1 & C1 apply).
  - 7) Reference Related Documents:  
Product Specification:  
3M Doc. ID# 78-5102-0091-4  
Tooling and Installation Instructions:  
3M Doc. ID# 78-9101-5361-4

| Performance:           |                                       |
|------------------------|---------------------------------------|
| Current Rating:        | 5.0A                                  |
| Voltage Rating:        | 160V                                  |
| Insulation Resistance: | > 1 x 10 <sup>8</sup> Ohms at 500 VDC |
| Withstanding Voltage:  | 1000VACrms at sea level               |
| Operating Temperature: | -20°C to +70°C                        |
| UL Temperature Rating: | +65°C                                 |

|                                 |  |                                |  |                                     |     |                                                                                                                                                                                                                                               |  |      |      |
|---------------------------------|--|--------------------------------|--|-------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|------|
| DESIGN REFERENCE                |  | NEXT ASSEMBLY                  |  | REV                                 | ECO | ISSUE DATE AND DESCRIPTION                                                                                                                                                                                                                    |  | DRFT | CHKD |
| DISTRIBUTION CODES              |  |                                |  | DRFT                                | MWL | DATE AUG 30, 2011                                                                                                                                                                                                                             |  | DATE |      |
|                                 |  |                                |  | CHKD                                |     | DATE                                                                                                                                                                                                                                          |  | APPL | DATE |
| DIVISION Interconnect Solutions |  | DIVISION CODE 1SD              |  | 3M                                  |     | © 3M COPYRIGHT 2011<br>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. |  |      |      |
| DO NOT SCALE DRAWING            |  | SCALE 4/1                      |  | TOLERANCES EXCEPT AS NOTED          |     | TITLE 2.54mm[.100"] LINK WIREMOUNT, HERMAPHRODITIC 381                                                                                                                                                                                        |  |      |      |
| THIRD ANGLE PROJECTION          |  | INCHES .0 ± .00 .000 ± .0000 ± |  | MILLIMETERS 0 ± .3 .00 ± .13 .000 ± |     | CAGE NUMBER SIZE DRAWING NO. 78-5100-2098-1                                                                                                                                                                                                   |  |      |      |
| INTERPRET PER ASME Y14.5 - 1994 |  | ANGLES ±1°                     |  | MAX SURFACE ROUGHNESS 125 ✓         |     | REV. E                                                                                                                                                                                                                                        |  |      |      |
| □ ALL SURFACES                  |  | □ MARKED ONLY                  |  | MODEL                               |     | DET. SHT 1 OF 2                                                                                                                                                                                                                               |  |      |      |



3M™ LINK CONNECTOR, 2.54mm[.100"], WIREMOUNT, HERMAPHRODITIC, 381 SERIES

PART ORDERING INFORMATION

3810X-X0XX-X0X FL (RIA E1 & C1 APPLY)

**NUMBER OF POSITIONS:**  
2 = 2 POSITION  
4 = 4 POSITION

**COVER SHAPE:**  
3M  
0 = 2.54mm FLAT CABLE  
E = DISCRETE WIRE 2.1 - 2.4mm DIA  
F = DISCRETE WIRE 1.8 - 2.1mm DIA  
W = DISCRETE WIRE 1.4 - 1.7mm DIA  
H = DISCRETE WIRE 1.1 - 1.4mm DIA

**CC Link/LT**  
M = 2.54mm FLAT CABLE  
A = DISCRETE WIRE 2.1 - 2.4mm DIA  
B = DISCRETE WIRE 1.8 - 2.1mm DIA

**MARKING**  
0 = 3M  
M = CC-Link/LT

**COLOR:**  
SEE TABLE 1 SHT 2

**WIRE AWG:**  
18  
20  
22

| AVAILABLE PRODUCTS |                               |                      |            |            |            |            |               |       |         |      |
|--------------------|-------------------------------|----------------------|------------|------------|------------|------------|---------------|-------|---------|------|
| PART NUMBERT       | COVER SHAPE<br>O.D./WIRE TYPE | WIRE SIZE<br>AWG/mm² | DIM<br>"A" | DIM<br>"B" | DIM<br>"C" | DIM<br>"D" | MARKING/SHAPE | COLOR |         |      |
|                    |                               |                      |            |            |            |            |               | BODY  | COVER   | CODE |
| 38104-0018-000 FL  | 2.54 FLAT CABLE               | 18 / 0.75            | 16.5       | 18.1       | 37.3       | 6.2        | 3M            | BLACK | BLACK   | O    |
| 38104-E018-E00 FL  | 2.1 - 2.4 DISCRETE            | 18 / 0.75            | 16.5       | 18.1       | 37.3       | 6.2        | 3M            | BLACK | ORANGE  | E    |
| 38104-F018-F00 FL  | 1.8 - 2.1 DISCRETE            | 18 / 0.75            | 16.5       | 18.1       | 37.3       | 6.2        | 3M            | BLACK | YELLOW  | F    |
| 38104-0020-100 FL  | 2.54 FLAT CABLE               | 20 / 0.50            | 16.5       | 18.1       | 37.3       | 6.2        | 3M            | GRAY  | BLACK   | I    |
| 38104-E020-G00 FL  | 2.1 - 2.4 DISCRETE            | 20 / 0.50            | 16.5       | 18.1       | 37.3       | 6.2        | 3M            | GRAY  | ORANGE  | G    |
| 38104-F020-H00 FL  | 1.8 - 2.1 DISCRETE            | 20 / 0.50            | 16.5       | 18.1       | 37.3       | 6.2        | 3M            | GRAY  | YELLOW  | H    |
| 38104-H022-K00 FL  | 1.1 - 1.4 DISCRETE            | 22 / 0.30            | 11.5       | 13.1       | 27.3       | 5.4        | 3M            | WHITE | WHITE   | K    |
| 38104-M018-M0M FL  | 2.54 FLAT CABLE               | 18 / 0.75            | 16.5       | 18.1       | 37.3       | 6.2        | CC Link/LT    | BLUE  | BLUE    | M    |
| 38104-A018-A0M FL  | 2.1 - 2.4 DISCRETE            | 18 / 0.75            | 16.5       | 18.1       | 37.3       | 6.2        | CC Link/LT    | BLUE  | D.GREEN | A    |
| 38104-B018-B0M FL  | 1.8 - 2.1 DISCRETE            | 18 / 0.75            | 16.5       | 18.1       | 37.3       | 6.2        | CC Link/LT    | BLUE  | L.GREEN | B    |
| 38102-0018-000 FL  | 2.54 FLAT CABLE               | 18 / 0.75            | 11.5       | 13.1       | 27.3       | 6.2        | 3M            | BLACK | BLACK   | O    |
| 38102-F020-H00 FL  | 1.8 - 2.1 DISCRETE            | 20 / 0.50            | 11.5       | 13.1       | 27.3       | 6.2        | 3M            | GRAY  | YELLOW  | H    |
| 38102-W022-W00 FL  | 1.4 - 1.7 DISCRETE            | 22 / 0.30            | 11.5       | 13.1       | 27.3       | 5.4        | 3M            | WHITE | PINK    | W    |

DESIGN REFERENCE

NEXT ASSEMBLY

DO NOT SCALE DRAWING

SCALE 4/1

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MAX SURFACE ROUGHNESS 125 ✓  
□ ALL SURFACES  
☒ MARKED ONLY

DIVISION Interconnect Solutions

DIVISION CODE ISD

TOLERANCES EXCEPT AS NOTED

INCHES .0 ± .00 ± .000 ± .0000 ±

MILLIMETERS 0 ± .0 ± .03 ± .13 ± .000 ±

ANGLES ±1°

REV ECO

ISSUE DATE AND DESCRIPTION

DRFT CHKD

DATE AUG 30, 2011

DATE

DATE

DATE

3M

3M Center St. Paul, MN 55144

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TITLE

2.54mm[.100"] LINK WIREMOUNT, HERMAPHRODITIC 381

CAGE NUMBER

SIZE

DRAWING NO.

REV.

78-5100-2098-1

E

MODEL

DET. LISTS

YES NO

SHT 2 OF 2

E 36079

SEP 09, 2011

MWL SAN

CONVERT TO NEW ENG. FORMAT, ADD 2 POSITION PART