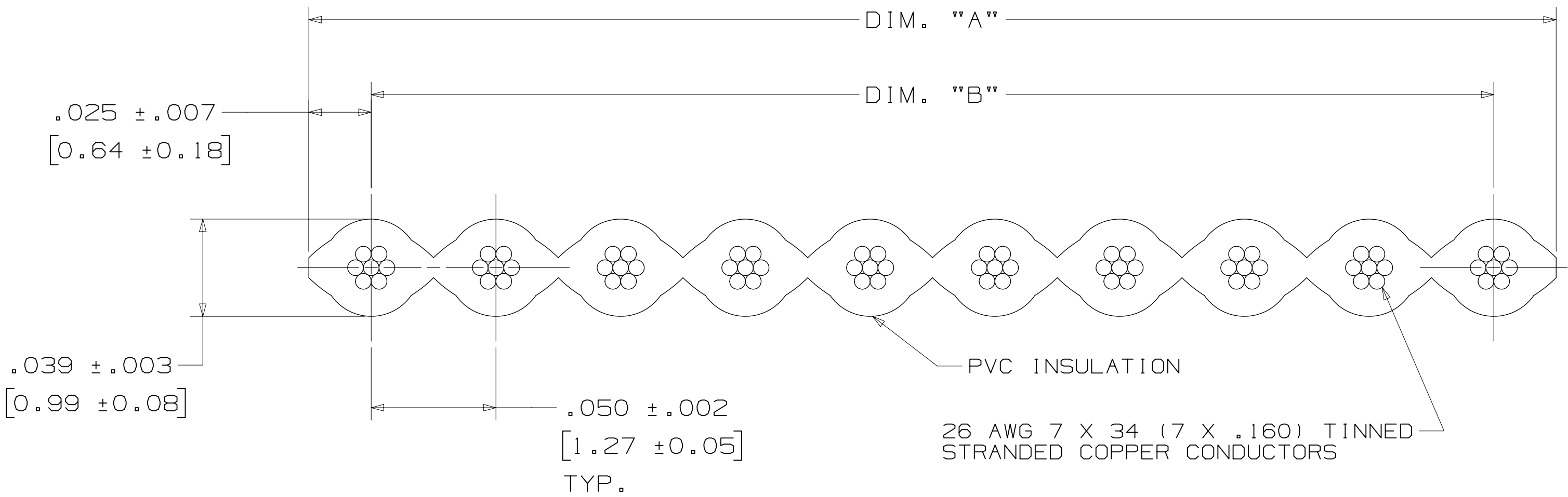


3M™ ROUND CONDUCTOR FLAT CABLE, 3801 SERIES  
.050" 26 AWG STRANDED, PVC



| TABLE 1              |                |                      |                      |
|----------------------|----------------|----------------------|----------------------|
| NUMBER OF CONDUCTORS | 3M PART NUMBER | DIMENSION "A"        | DIMENSION "B"        |
| 04                   | 3801/04        | .200±.010 [ 5.08 ]   | .150±.007 [ 3.18 ]   |
| 05                   | 3801/05        | .250±.010 [ 6.35 ]   | .200±.007 [ 5.08 ]   |
| 06                   | 3801/06        | .300±.010 [ 7.62 ]   | .250±.007 [ 6.35 ]   |
| 07                   | 3801/07        | .350±.010 [ 8.89 ]   | .300±.007 [ 7.62 ]   |
| 08                   | 3801/08        | .400±.010 [ 10.16 ]  | .350±.007 [ 8.89 ]   |
| 09                   | 3801/09        | .450±.010 [ 11.43 ]  | .400±.007 [ 10.16 ]  |
| 10                   | 3801/10        | .500±.010 [ 12.70 ]  | .450±.007 [ 11.43 ]  |
| 12                   | 3801/12        | .600±.010 [ 15.24 ]  | .550±.007 [ 13.97 ]  |
| 14                   | 3801/14        | .700±.010 [ 17.78 ]  | .650±.007 [ 16.51 ]  |
| 15                   | 3801/15        | .750±.010 [ 19.05 ]  | .700±.007 [ 17.78 ]  |
| 16                   | 3801/16        | .800±.015 [ 20.32 ]  | .750±.011 [ 19.05 ]  |
| 18                   | 3801/18        | .900±.015 [ 22.86 ]  | .850±.011 [ 21.59 ]  |
| 20                   | 3801/20        | 1.000±.015 [ 25.40 ] | .950±.011 [ 24.13 ]  |
| 24                   | 3801/24        | 1.200±.015 [ 30.48 ] | 1.150±.011 [ 29.21 ] |
| 25                   | 3801/25        | 1.250±.015 [ 31.75 ] | 1.200±.011 [ 30.48 ] |
| 26                   | 3801/26        | 1.300±.015 [ 33.02 ] | 1.250±.011 [ 31.75 ] |
| 30                   | 3801/30        | 1.500±.020 [ 38.10 ] | 1.450±.015 [ 36.83 ] |
| 34                   | 3801/34        | 1.700±.020 [ 43.18 ] | 1.650±.015 [ 41.91 ] |
| 36                   | 3801/36        | 1.800±.020 [ 45.72 ] | 1.750±.015 [ 44.45 ] |
| 37                   | 3801/37        | 1.850±.020 [ 46.99 ] | 1.800±.015 [ 45.72 ] |
| 40                   | 3801/40        | 2.000±.020 [ 50.80 ] | 1.950±.015 [ 49.53 ] |
| 44                   | 3801/44        | 2.200±.020 [ 55.88 ] | 2.150±.015 [ 54.61 ] |
| 50                   | 3801/50        | 2.500±.020 [ 63.50 ] | 2.450±.015 [ 62.23 ] |
| 60                   | 3801/60        | 3.000±.020 [ 76.20 ] | 2.950±.015 [ 74.93 ] |
| 64                   | 3801/64        | 3.200±.020 [ 81.28 ] | 3.150±.015 [ 80.07 ] |

1. REGULATORY INFORMATION:  
VISIT 3M.com/regs OR CONTACT  
YOUR 3M REPRESENTATIVE TO FIND  
THE RoHS COMPLIANCE STATUS OF  
THE 3M PART YOU ARE INTERESTED  
IN.  
  
UL FILE: E42769  
STYLE: 2651

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

2. PHYSICAL :  
INSULATION: POLYVINYL CHLORIDE (PVC)  
MATERIAL: POLYVINYL CHLORIDE (PVC)  
COLOR: SEE ORDERING INFORMATION  
MARKING:  
STANDARD: NONE  
CANADIAN: SEE "PRINTING ILLUSTRATION" VIEW

CONDUCTORS: 26 AWG 7 X 34 [ 7 X .160 ] TINNED STRANDED COPPER

2. ELECTRICAL :  
VOLTAGE RATING: USA 300V CANADIAN 300V EU: <50V  
INSULATION RESISTANCE: >1 X 10<sup>10</sup>Ω/10ft. [ 3m ]  
  
UNBALANCED  
CHARACTERISTIC IMPEDANCE: 89Ω  
CAPACITANCE: 16.2 pF/ft [ 53.1 pF/m ]  
INDUCTANCE: .13μH/ft [ .43μH/m ]  
PROPAGATION DELAY: 1.44 ns/ft [ 4.72 ns/m ]  
VELOCITY OF PROPAGATION: 71%  
  
NOTE: UNBALANCED IS MEASURED BETWEEN GROUND-SIGNAL-GROUND CONDUCTORS.

2. ENVIRONMENTAL :  
TEMPERATURE RATING: -20°C TO 105°C  
FLAMMABILITY RATING: USA: VW-1 CANADA: FT1

ORDERING INFORMATION

X3801X / XX XX  
BLANK= STANDARD  
C= CANADIAN CERTIFIED  
VERSION  
BLANK= STANDARD  
SF= SPLICE FREE  
No. OF CONDUCTORS:  
(SEE TABLE 1)  
COLOR OPTIONS:  
BLANK= GRAY (STANDARD PRODUCT)  
A= BLACK (SPECIAL PRODUCT)

NOTE:  
AVAILABLE IN STANDARD 100FT OR 300FT ROLLS.  
PLEASE SPECIFY WHEN ORDERING.  
CONTACT 3M FOR AVAILABILITY OF ADDITIONAL  
CONDUCTOR COUNTS AND/OR CUSTOM ROLL LENGTHS.

CANADIAN OPTION  
"PRINTING ILLUSTRATION"



AWM 2651 105C 300V VW1 3M NU



AWM 1A 105C 300V FT1 EU <50V

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION  
INTERCONNECT SOLUTIONS  
http://www.3Mconnectors.com

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

| INCH [ MM ]                   |      |       |
|-------------------------------|------|-------|
| TOLERANCE - UNLESS NOTED      |      |       |
| .X                            | .XX  | .XXX  |
| [ INCH ] ±.1                  | ±.01 | ±.005 |
| [ ] = DIM. FOR REFERENCE ONLY |      |       |

| DESIGN REFERENCE       |      | NEXT ASSEMBLY              |      |
|------------------------|------|----------------------------|------|
| REV                    | ECO  | ISSUE DATE AND DESCRIPTION | DRFT |
| CHKD                   | CHKD | DATE                       | DATE |
| DIVISION               |      | DIVISION CODE              |      |
| DO NOT SCALE DRAWING   |      | EMSD                       |      |
| THIRD ANGLE PROJECTION |      | TOLERANCES EXCEPT AS NOTED |      |
| MAX SURFACE ROUGHNESS  |      | INCHES                     |      |
| SURFACES               |      | MILLIMETERS                |      |
| MARKED ONLY            |      | ANGLES                     |      |

|                        |         |                               |      |      |
|------------------------|---------|-------------------------------|------|------|
| D                      | 0104000 | MAY 04,2022                   | LDS  | FJR  |
|                        |         | ADDED 12 CONDUCTOR TO TABLE 1 |      |      |
| C                      | 73662   | MAY 10,2017                   | JNC  | RDE  |
|                        |         | REVISED AND REDRAWN           |      |      |
| REV                    | ECO     | ISSUE DATE AND DESCRIPTION    | DRFT | CHKD |
| CHKD                   | CHKD    | DATE                          | DATE | DATE |
| DIVISION               |         | DIVISION CODE                 |      | DATE |
| DO NOT SCALE DRAWING   |         | EMSD                          |      | DATE |
| THIRD ANGLE PROJECTION |         | TOLERANCES EXCEPT AS NOTED    |      | DATE |
| MAX SURFACE ROUGHNESS  |         | INCHES                        |      | DATE |
| SURFACES               |         | MILLIMETERS                   |      | DATE |
| MARKED ONLY            |         | ANGLES                        |      | DATE |

|             |  |                                                   |  |
|-------------|--|---------------------------------------------------|--|
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| TITLE       |  | ROUND CONDUCTOR FLAT                              |  |
|             |  | CABLE, .050", 26 AWG                              |  |
|             |  | STRANDED, PVC                                     |  |
| CAGE NUMBER |  | DRAWING NO.                                       |  |
| D           |  | 78-5100-0063-7                                    |  |
| MODEL       |  | REV.                                              |  |
| 3801        |  | D                                                 |  |
|             |  | DET                                               |  |
|             |  | LISTS                                             |  |
|             |  | YES                                               |  |
|             |  | NO                                                |  |
|             |  | SHT 1 OF 2                                        |  |

3M™ ROUND CONDUCTOR FLAT CABLE, 3801 SERIES  
.050" 26 AWG STRANDED, PVC

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

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|                                 |  |               |  |                            |             |                                                                                                                                                                                                                        |            |             |      |
|---------------------------------|--|---------------|--|----------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|------|
| DESIGN REFERENCE                |  | NEXT ASSEMBLY |  | REV                        | ECO         | ISSUE DATE AND DESCRIPTION                                                                                                                                                                                             |            | DRFT        | CHKD |
| XREF CODES                      |  |               |  | DR                         | DATE        |                                                                                                                                                                                                                        | MFG        | DATE        |      |
|                                 |  |               |  | CHKD                       | MAY 10,2017 |                                                                                                                                                                                                                        | R. EDWARDS | MAY 10,2017 |      |
| DIVISION                        |  | DIVISION CODE |  | © 3M COPYRIGHT 2022        |             |                                                                                                                                                                                                                        |            |             |      |
| DO NOT SCALE DRAWING            |  | SCALE 1/1     |  | TOLERANCES EXCEPT AS NOTED |             | 3M Center St. Paul, MN 55144                                                                                                                                                                                           |            |             |      |
| THIRD ANGLE PROJECTION          |  | INCHES        |  | MILLIMETERS                |             | 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. |            |             |      |
| INTERPRET PER ASME Y14.5 - 2018 |  | 0 ±           |  | 0 ±                        |             | CAGE NUMBER                                                                                                                                                                                                            |            |             |      |
| MAX SURFACE ROUGHNESS           |  | 0.00 ±        |  | 0.00 ±                     |             | DRAWING NO.                                                                                                                                                                                                            |            | REV.        |      |
| MARKED SURFACES                 |  | 200 ±         |  | 200 ±                      |             | D78-5100-0063-7                                                                                                                                                                                                        |            | D           |      |
| MARKED ONLY                     |  | ANGLES        |  | MODEL                      |             | 3801                                                                                                                                                                                                                   |            | DET         |      |
|                                 |  |               |  |                            |             |                                                                                                                                                                                                                        |            | LISTS       |      |
|                                 |  |               |  |                            |             |                                                                                                                                                                                                                        |            | YES         |      |
|                                 |  |               |  |                            |             |                                                                                                                                                                                                                        |            | NO          |      |
|                                 |  |               |  |                            |             |                                                                                                                                                                                                                        |            | SHT 2 OF 2  |      |