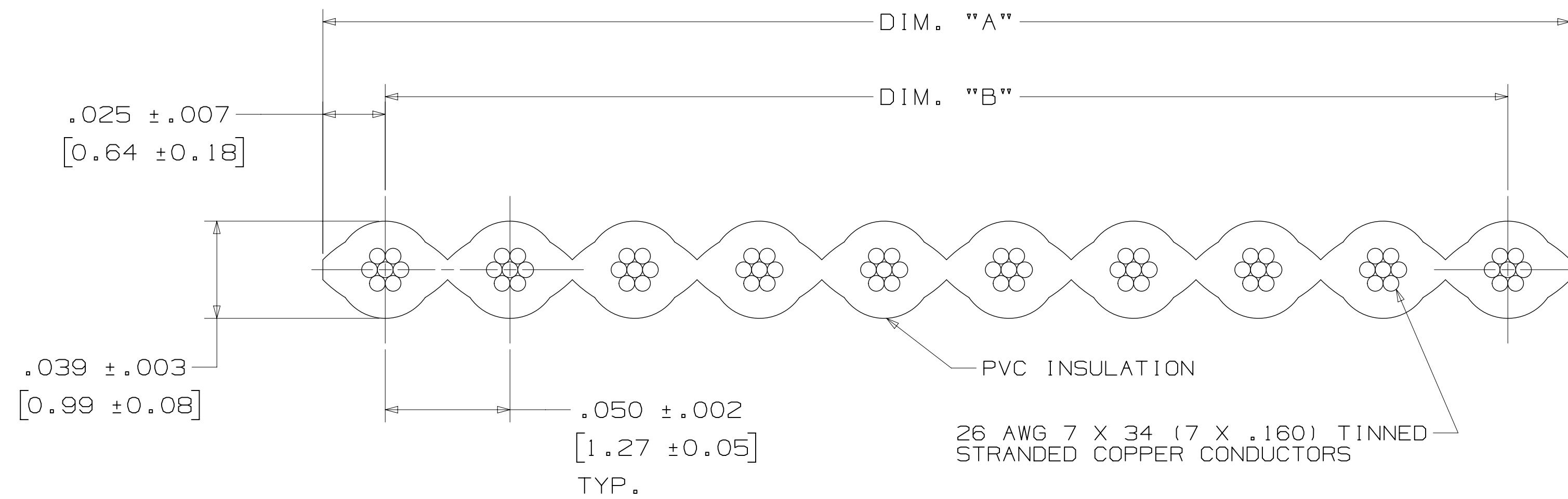


# 3M™ ROUND CONDUCTOR FLAT CABLE, 3801 SERIES

.050" 26 AWG STRANDED, PVC



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 ]

NOTES

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: NONE  
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>9</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"

**RU** AWM 2651 105C 300V VW1 3M NU  
**cRU** AWM 1A 105C 300V FT1 EU <50V

3M ELECTRONICS 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

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

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
D	0104000	MAY 04, 2022 ADDED 12 CONDUCTOR TO TABLE 1	LDS	FJR
C	73862	MAY 10, 2017 REVISED AND REDRAWN	JNC	RDE

DESIGN REFERENCE	NEXT ASSEMBLY	DIVISION CODE	EMSD
DO NOT SCALE DRAWING	SCALE 25/1	TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS	
MAX SURFACE ROUGHNESS	DT SURFACES	INCHES	
MARKED ONLY			

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TITLE: ROUND CONDUCTOR FLAT CABLE, .050", 26 AWG STRANDED, PVC

CAGE NUMBER: D78-5100-0063-7  
DRAWING NO.: 78-5100-0063-7  
REV.: D

MODEL: 3801  
SHT 1 OF 2

Imaged: Central Standard Time 5/4/2022 11:54:00 AM UTC Offset (hrs): 6  
DRAWING NUMBER: 78-5100-0063-7  
REVISION: 1

# 3M™ ROUND CONDUCTOR FLAT CABLE, 3801 SERIES

.050" 26 AWG STRANDED, PVC

**Regulatory:** For regulatory information about this product, visit [3M.com/regs](http://3M.com/regs) or contact your 3M representative.


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DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
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THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS		TITLE <b>ROUND CONDUCTOR FLAT CABLE, .050", 26 AWG STRANDED, PVC</b>		
MAX SURFACE ROUGHNESS	MARKED ONLY	INCHES		CAGE NUMBER <b>D78-5100-0063-7</b>		
		MILLIMETERS		DRAWING NO. <b>D78-5100-0063-7</b>		
		INCHES		MODEL <b>3801</b>		
				REV. 1 DATE: MAY 04, 2022 DESCRIPTION: ADDED 12 CONDUCTOR TO TABLE 1 DRFT: LDS CHKD: FJR		
				REV. 2 DATE: MAY 10, 2017 DESCRIPTION: REVISED AND REDRAWN DRFT: JNC CHKD: RDE		
				DIVISION: EMSD 3M Center St. Paul, MN 55144		

78-5100-0063-7 DRAWING NUMBER  
 Time 5/4/2022 5:44:00 UTC Offset (hrs) 6