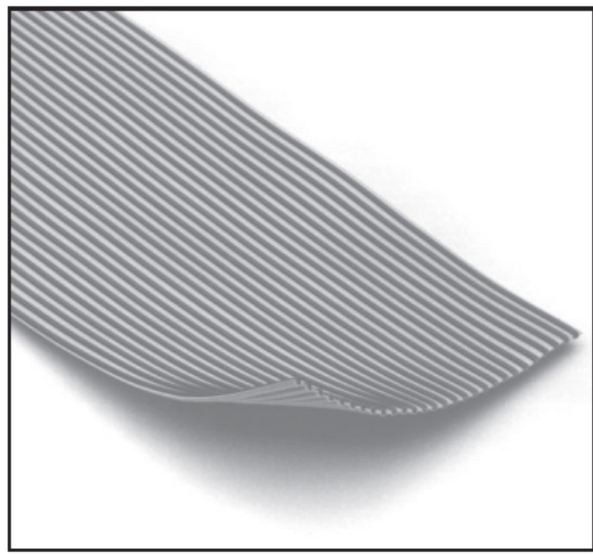
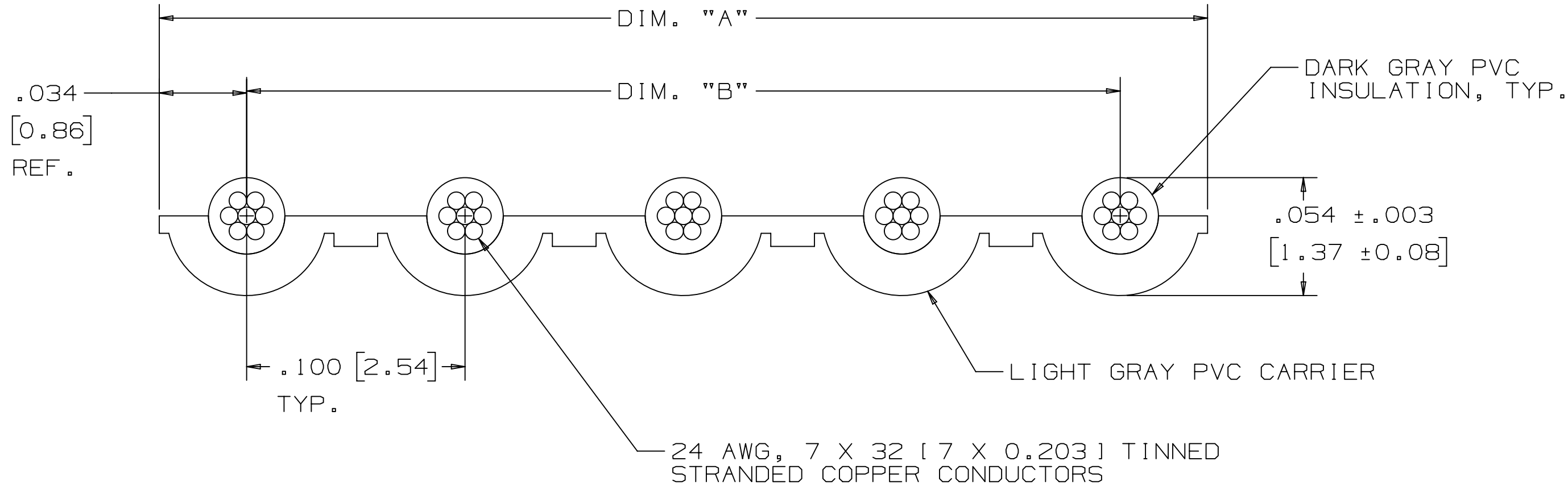


3M™ ROUND CONDUCTOR FLAT CABLE, 8125 SERIES
.100", 24 AWG STRANDED, PVC



- * DESIGNED FOR POWER APPLICATIONS REQUIRING HIGHER CURRENT CARRYING CAPABILITY.
- * 24 AWG TINNED STRANDED COPPER WIRE PROVIDES FLEXIBILITY AND EXTENDED PRODUCT LIFE.
- * INDIVIDUALLY INSULATED CONDUCTORS ARE LAMINATED TO A PVC BACKING WHICH CAN BE ZIPPED APART FOR BRANCHING OR DISCRETE TERMINATIONS.

1. REGULATORY INFORMATION:
VISIT 3M.com/regs
OR CONTACT YOUR 3M REPRESENTATIVE.
2. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
3. RED MARKING ON ONE EDGE OF CABLE DESIGNATES WIRE #1.



NUMBER OF CONDUCTORS	3M PART NUMBER	DIM. "A"	DIM. "B"
03	8125/03	.268±.010 [6.81]	.200±.007 [5.08]
04	8125/04	.368±.010 [9.35]	.300±.007 [7.62]
05	8125/05	.468±.010 [11.89]	.400±.007 [10.16]
06	8125/06	.568±.010 [14.43]	.500±.007 [12.70]
08	8125/08	.768±.010 [19.51]	.700±.007 [17.78]
09	8125/09	.868±.010 [22.05]	.800±.007 [20.32]
10	8125/10	.968±.010 [24.59]	.900±.007 [22.86]
12	8125/12	1.168±.015 [29.67]	1.100±.011 [27.94]
13	8125/13	1.268±.015 [32.21]	1.200±.011 [30.48]
14	8125/14	1.368±.015 [34.65]	1.300±.011 [33.02]
15	8125/15	1.468±.015 [37.29]	1.400±.011 [35.56]
16	8125/16	1.568±.015 [39.83]	1.500±.011 [38.10]
17	8125/17	1.668±.015 [42.37]	1.600±.011 [40.64]
20	8125/20	1.968±.015 [49.99]	1.900±.011 [48.26]

2. PHYSICAL :

INSULATOR:
MATERIAL: POLYVINYL CHLORIDE (PVC)
COLOR: DARK GRAY WIRES
MARKING STANDARD: NONE
CANADIAN OPTION: SEE BELOW FOR MARKING
CONDUCTORS: 24 AWG 7 X 32 [7 X 0.203] TINNED STRANDED COPPER

2. ELECTRICAL CHARACTERISTICS	
VOLTAGE RATING	USA: 300V, CANADA: 150V, EU: <50V
INSULATION RESISTANCE	>1 X 10 ¹⁰ Ω/10 FT [3 m]
UNBALANCED	
CHARACTERISTIC IMPEDANCE	136 Ω
CAPACITANCE	9.6 pF/ft [31.5 pF/m]
INDUCTANCE	0.18 μH/ft [0.59 μH/m]
PROPAGATION DELAY	1.30 ns/ft [4.27 ns/m]
VELOCITY OF PROPAGATION	78%

NOTE: UNBALANCED IS MEASURED BETWEEN GROUND-SIGNAL-GROUND CONDUCTORS.

2. ENVIRONMENTAL :

TEMPERATURE RATING: -20°C TO +105°C CANADA: -20°C TO +80°C
FLAMMABILITY RATING: USA: VW1 CANADA: FT1

ORDERING INFORMATION

X8125/XX XX

BLANK = STANDARD
C = CANADIAN CERTIFIED
VERSION

BLANK = STANDARD
SF = SPLICE FREE

NUMBER OF CONDUCTORS
(SEE TABLE 1)

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

"PRINTING ILLUSTRATION"



AWM 20462 105°C 300V VW1 3M NU



AWM IA 80°C 150V FT1 EU <50V



UL FILE No: E42769,
STYLE No: 20462
(CANADA OPTIONAL)

DIMENSIONS: INCHES [MM]
[MM] IS FOR REF. ONLY

DESIGN REFERENCE	NEXT ASSEMBLY
AXES CODES	DIVISION CODE DEPP
DIVISION	DO NOT SCALE DRAWING
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018
MAX. SURFACE ROUGHNESS ALL SURFACES	MARKED ONLY
INCHES ±.1 ±.01 ±.005 ±.0002	MILLIMETERS ± ± ± ±
ANGLES	

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
124801		JUL 22,2025 ADD MISSING COUNTS	JNC	JG
80550		AUG 29,2018 ADD 4 COUNT	LDS	BM
DATE	DATE	DATE	DATE	DATE
JUL 22,2025	JUL 22,2025	JUL 22,2025	JUL 22,2025	JUL 22,2025
APPR	J. GOERTZ			
3M	3M Center St. Paul, MN 55144	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	RD CONDUCTOR FLAT CABLE, .100" SPACING, 24AWG STRANDED, PVC			
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D	78-5100-0259-1	E		
MODEL	8125	DET	LISTS	YES NO SHT 1 OF 2

3M™ Display and Electronics Product Platform, (DEPP)
Transportation and Electronics Business Group (TEBG)
<http://www.3M.com/interconnect>

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

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3M™ ROUND CONDUCTOR FLAT CABLE, 8125 SERIES

.100", 24 AWG STRANDED, PVC

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

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Electronics Materials Solutions Division
13011 McCallen Pass, Bldg. C
Austin, TX 78753-5380
1-800-225-5373
www.3M.com/interconnect

DESIGN REFERENCE

NEXT ASSEMBLY

REV

ECO

ISSUE DATE AND DESCRIPTION

DRFT

CHKD

DO NOT SCALE DRAWING

SCALE

TOLERANCES EXCEPT AS NOTED

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2018

MAX. SURFACE ROUGHNESS

ALL SURFACES

MARKED ONLY

DIVISION

DIVISION CODE

DEPP

INCHES

0.0 ± .1

0.00 ± .01

0.000 ± .005

0.0000 ± .0002

MILLIMETERS

0 ±

0.0 ±

0.00 ±

0.000 ±

3M

3M Center
St. Paul,
MN 55144

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TITLE

RD CONDUCTOR FLAT CABLE, .100" SPACING, 24AWG STRANDED, PVC

CAGE NUMBER

SIZE

DRAWING NO.

REV.

MODEL

8125

DET

ISTS

YES

NO

SHT 2 OF 2

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78-5100-0259-1

Revision Number

Revision