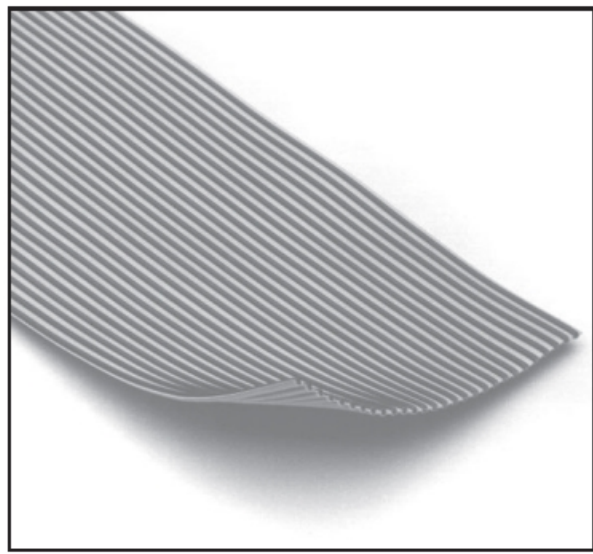
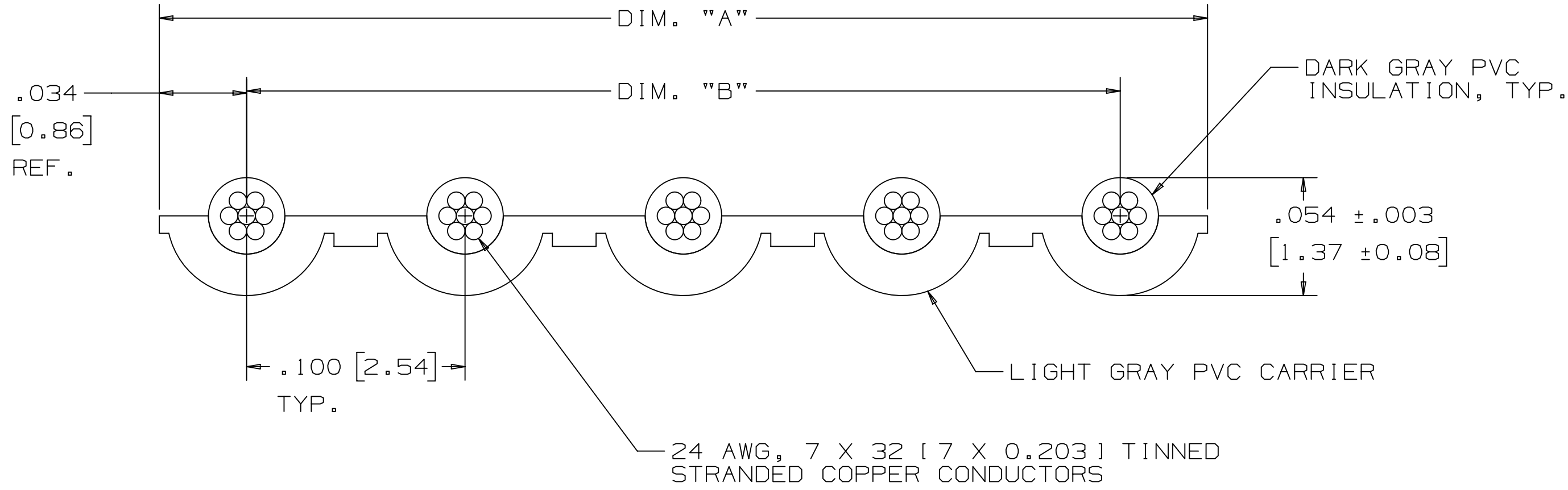


3M™ ROUND CONDUCTOR FLAT CABLE, 8125 SERIES
.100", 24 AWG STRANDED, PVC



- * 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)

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

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INFORMATION CALL 800-225-5373

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	ANGLES
TOLERANCES EXCEPT AS NOTED	INCHES .0 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0002
MILLIMETERS	0 ± .0 ± .00 ± .000 ±
CAGE NUMBER	SIZE
MODEL	8125

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
1	ECO	JUL 22,2025 ADD MISSING COUNTS	JNC	JG
2	ECO	AUG 29,2018 ADD 4 COUNT	LDS	BM
3	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
4	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
5	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
6	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
7	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
8	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
9	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
10	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
11	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
12	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
13	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
14	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
15	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
16	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
17	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
18	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
19	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG
20	ECO	JUL 22,2025 ADD 4 COUNT	JNC	JG

TITLE	RD CONDUCTOR FLAT CABLE, .100" SPACING, 24AWG STRANDED, PVC
CAGE NUMBER	8125
SIZE	D
DRAWING NO.	78-5100-0259-1
REV.	E
DET	1
YES	NO
SHT	1 OF 2

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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		E	124801	JUL 22,2025		JNC	JG
		D	80550	AUG 29,2018		LDS	BM
				ADD 4 COUNT			
DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION	
XREF CODES				DRFT	CST	GL	ONE
				DATE	JUL 22,2025	MFG	DATE
				CHKD	DATE	APPR	DATE
						J. GOERTZ	JUL 22,2025
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2025			
SCALE		DEPP		3M Center St. Paul, MN 55144			
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THIRD ANGLE PROJECTION		INCHES		TITLE			
		.0 ±.1		RD CONDUCTOR FLAT			
		.00 ±.01		CABLE, .100" SPACING,			
		.000 ±.005		24AWG STRANDED, PVC			
		.0000 ±.0002					
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS		CAGE NUMBER			
		0 ±		SIZE			
		.0 ±		DRAWING NO.			
		.00 ±		D78-5100-0259-1			
		.000 ±		REV.			
MAX SURFACE ROUGHNESS		ANGLES		MODEL			
ALL SURFACES		±		8125			
MARKED ONLY				DET			
				LTS YES NO SHT 2 OF 2			