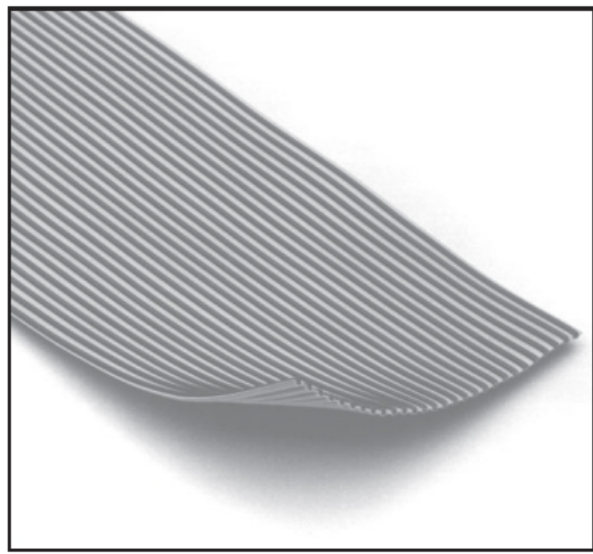
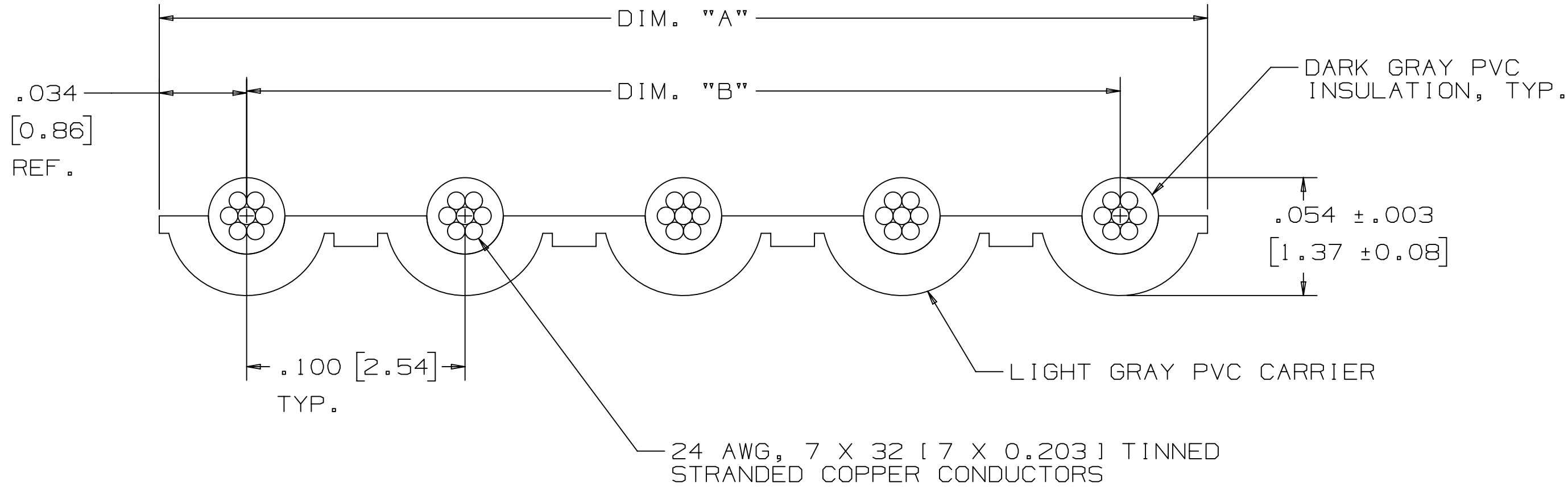


3M™ ROUND CONDUCTOR FLAT CABLE, 8125 SERIES
.100", 24 AWG STRANDED, PVC



- * 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	ANGLES
TOLERANCES EXCEPT AS NOTED	INCHES .0 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0002
MILLIMETERS	0 ± .0 ± .00 ± .000 ±

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	DATE	DATE	DATE
JUL 22,2025	JUL 22,2025	JUL 22,2025	JUL 22,2025	JUL 22,2025
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D	78-5100-0259-1	E		
MODEL	8125	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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INFORMATION CALL 800-225-5373

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

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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	GLT	
				DATE	JUL 22,2025	MFG DATE	
				CHKD		APPR. J. GOERTZ	
DIVISION		DIVISION CODE		DATE		DATE	
		DEPP		JUL 22,2025		JUL 22,2025	
DO NOT SCALE DRAWING		SCALE		TOLERANCES EXCEPT AS NOTED		© 3M COPYRIGHT 2025	
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THIRD ANGLE PROJECTION				TITLE		RD CONDUCTOR FLAT CABLE, .100" SPACING, 24AWG STRANDED, PVC	
INTERPRET PER ASME Y14.5 - 2018				CAGE NUMBER		DRAWING NO.	
MAX SURFACE ROUGHNESS				D		78-5100-0259-1	
ALL SURFACES				MODEL		REV.	
MARKED ONLY				8125		E	
				DET		SHT 2 OF 2	