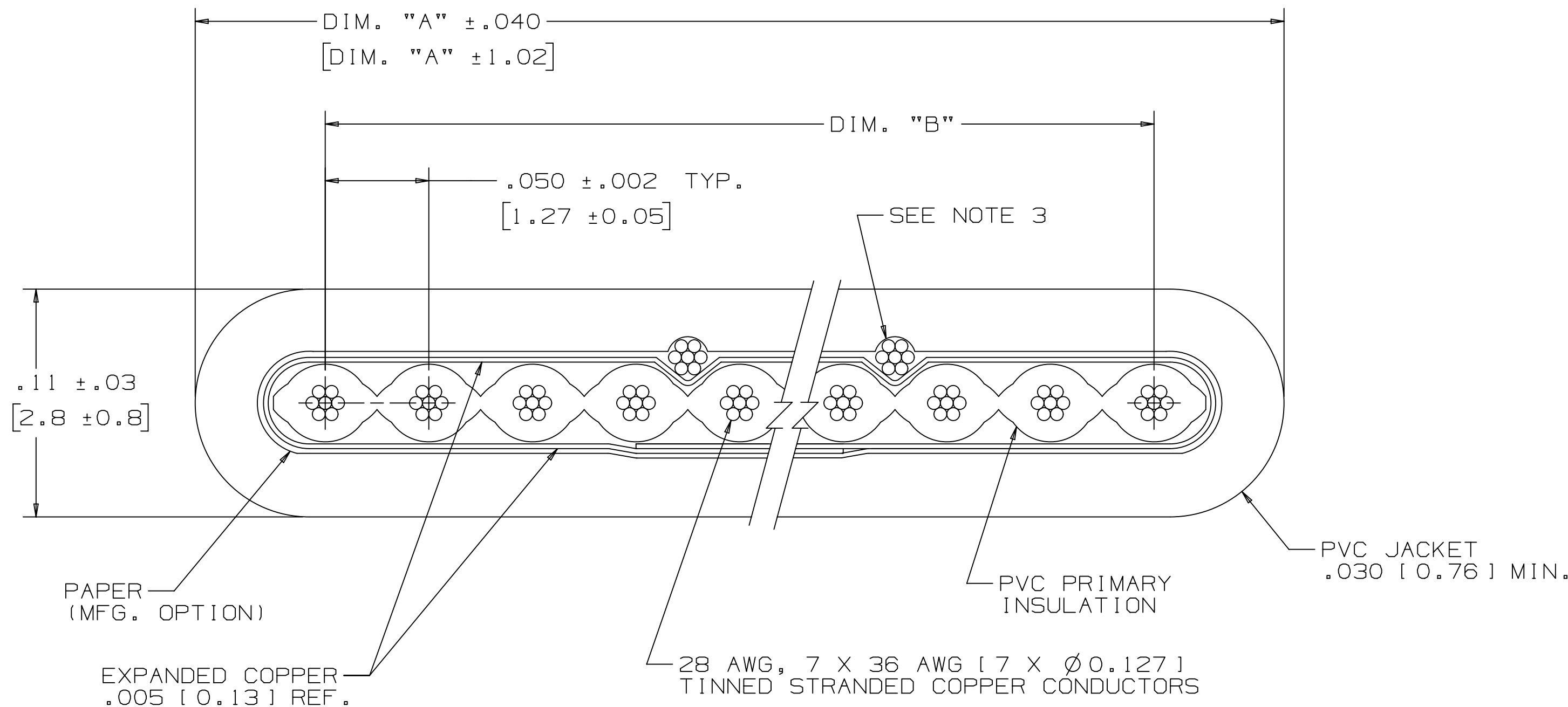


3M™ SHIELDED/JACKETED, FLAT CABLE, 3517 SERIES
 .050" 28 AWG STRANDED, PVC/PVC



- * MEETS EXTERNAL WIRING REQUIREMENTS OF NATIONAL ELECTRICAL CODE, ARTICLE 725 (CL2).
- * UL LISTED FOR USA AND CANADIAN MARKETS.
- * 28 AWG STRANDED WIRE ON .050 INCH CENTERS PERMITS MASS TERMINATION TO BOARD LINE OF IDC CONNECTORS.
- * 360 DEGREE EXPANDED COPPER SHIELDING PROVIDES 20 db AVERAGE SHIELDING EFFECTIVENESS.
- * PRIMARY CABLE IS ZIPPABLE FOR BRANCHING OR DISCRETE TERMINATIONS.

2 PHYSICAL :
 INSULATION:
 JACKET MATERIAL: POLYVINYL CHLORIDE (PVC)
 COLOR: BLACK
 PRIMARY MATERIAL: PVC
 COLOR: GRAY
 SHIELDING MATERIAL: EXPANDED COPPER
 MARKING:
 STANDARD: SEE "PRINTING ILLUSTRATION" BELOW
 CONDUCTORS: 28 AWG, 7 X 36 AWG [7 X Ø0.127] TINNED STRANDED COPPER ALLOY

- NOTES
- REGULATORY INFORMATION: VISIT 3M.com/regs
 - IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
 - 2 OPTIONAL DRAIN WIRES:
 - ARE NOT JACKETED.
 - 28 AWG, 7 X 36 AWG [7 X Ø0.127] TPC.
 - WIRE PAIR CENTERED ON CABLE
 - 9-10 CONDUCTOR COUNT: .25" SPACING.
 - >10 CONDUCTOR COUNT: .50" SPACING.

2 TABLE 2 ELECTRICAL CHARACTERISTICS

VOLTAGE RATING	USA: N.E.C. 725, CL2 OR AWM 300V, CANADA: <50V, EU: <50V	
INSULATION RESISTANCE	PRIMARY CABLE >1 X 10 ¹⁰ Ω/10 FT [3 m]	
CHARACTERISTIC IMPEDANCE	UNBALANCED	BALANCED
	70 Ω	119 Ω
CAPACITANCE	21.5 pF/ft [70.5 pF/m]	12.7 pF/ft [41.7 pF/m]
INDUCTANCE	0.11 μH/ft [0.35 μH/m]	0.18 μH/ft [0.59 μH/m]
PROPAGATION DELAY	1.51 ns/ft [4.95 ns/m]	1.51 ns/ft [4.95 ns/m]
VELOCITY OF PROPAGATION	67%	67%

NOTE: UNBALANCED IS MEASURED BETWEEN GROUND-SIGNAL-GROUND CONDUCTORS, WITH SHIELD GROUNDED.
 BALANCED IS MEASURED BETWEEN SIGNAL CONDUCTORS WITHIN A PAIR, WITH THE SHIELD FLOATING.

2 ENVIRONMENTAL :
 TEMPERATURE RATING: USA: CL2; 75°C OR AWM: -20°C TO +80°C CANADA: 80°C
 FLAMMABILITY RATING: USA: N.E.C. 725, CL2 CANADA: FT1

ORDERING INFORMATION

X 3517/XX XX DW
 BLANK = STANDARD
 C = CANADIAN CERTIFIED VERSION
 OPTIONAL DRAIN WIRES (SPECIAL)
 BLANK = STANDARD
 SF = SPLICE FREE
 NUMBER OF CONDUCTORS (SEE TABLE 1)

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

"PRINTING ILLUSTRATION"

UL® CL2 75C 28 AWG OR AWM 20879 3M NU **UL**® AWM IIA/B 80C 300V FT1 EU <50V

TABLE 1

No. OF CONDUCTORS	3M PART No.	DIM. "A"	DIM. "B"
09	3517/09	.58 [14.7]	.400±.007 [10.18]
10	3517/10	.63 [16.0]	.450±.007 [11.43]
14	3517/14	.83 [21.1]	.650±.007 [16.51]
15	3517/15	.88 [22.4]	.700±.007 [17.78]
16	3517/16	.93 [23.6]	.750±.011 [19.05]
20	3517/20	1.13 [28.7]	.950±.011 [24.13]
24	3517/24	1.33 [33.8]	1.150±.011 [29.21]
25	3517/25	1.38 [35.0]	1.200±.011 [30.48]
26	3517/26	1.43 [36.3]	1.250±.011 [31.75]
30	3517/30	1.63 [41.4]	1.450±.015 [36.83]
34	3517/34	1.83 [46.5]	1.650±.015 [41.91]
36	3517/36	1.93 [49.0]	1.750±.015 [44.45]
37	3517/37	1.98 [50.3]	1.800±.015 [45.72]
40	3517/40	2.13 [54.1]	1.950±.015 [49.53]
50	3517/50	2.63 [66.8]	2.450±.015 [62.23]
60	3517/60	3.13 [79.5]	2.950±.015 [74.93]
64	3517/64	3.38 [85.9]	3.150±.015 [80.01]

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 INFORMATION CALL 800-225-5373

UL® US
 UL FILE NO: E118773
 UL STYLE NO: 20879

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

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
		CASTIGLIONE		APR 15, 2024		
DIVISION		DIVISION CODE		DATE		
DO NOT SCALE DRAWING		EMSD		APR 15, 2024		
THIRD ANGLE PROJECTION		TOLERANCES EXCEPT AS NOTED		APR 15, 2024		
INTERPRET PER ASME Y14.5 - 2018		INCHES		APR 15, 2024		
MAX SURFACE ROUGHNESS		MILLIMETERS		APR 15, 2024		
ALL SURFACES		0 ±		APR 15, 2024		
MARKED ONLY		.00 ±		APR 15, 2024		
		.00 ± .01		APR 15, 2024		
		.000 ± .005		APR 15, 2024		
		.0000 ± .0002		APR 15, 2024		

3M Center St. Paul, MN 55144
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TITLE: SHIELD/JACKET, FLAT CABLE 3517, .050" 28AWG STRND, PVC

CAGE NUMBER: D78-5100-0069-4
 DRAWING NO.: 78-5100-0069-4
 REV. E
 MODEL: 3517
 DET: [] YES [X] NO
 SHT 1 OF 2

78-5100-0069-4
 DRAWING NUMBER
 REVISION

3M™ SHIELDED/JACKETED, FLAT CABLE, 3517 SERIES
 .050" 28 AWG STRANDED, PVC/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
		DRFT	CASTIGLIONE	DATE APR 15, 2024	MFG	DATE
		CHKD		DATE	APPRV	DATE APR 15, 2024
					E. RODRIGUEZ	
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DO NOT SCALE DRAWING	SCALE	TOLERANCES EXCEPT AS NOTED INCHES .0 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0002				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS 0 ± .0 ± .00 ± .000 ±				
MAX SURFACE ROUGHNESS	ALL SURFACES	CAGE NUMBER D 78-5100-0069-4 MODEL 3517 DET <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SHT 2 OF 2				
<input checked="" type="checkbox"/> MARKED ONLY	ANGLES	TITLE SHIELD/JACKET, FLAT CABLE 3517, .050" 28AWG STRND, PVC				

78-5100-0069-4
 DRAWING NUMBER

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