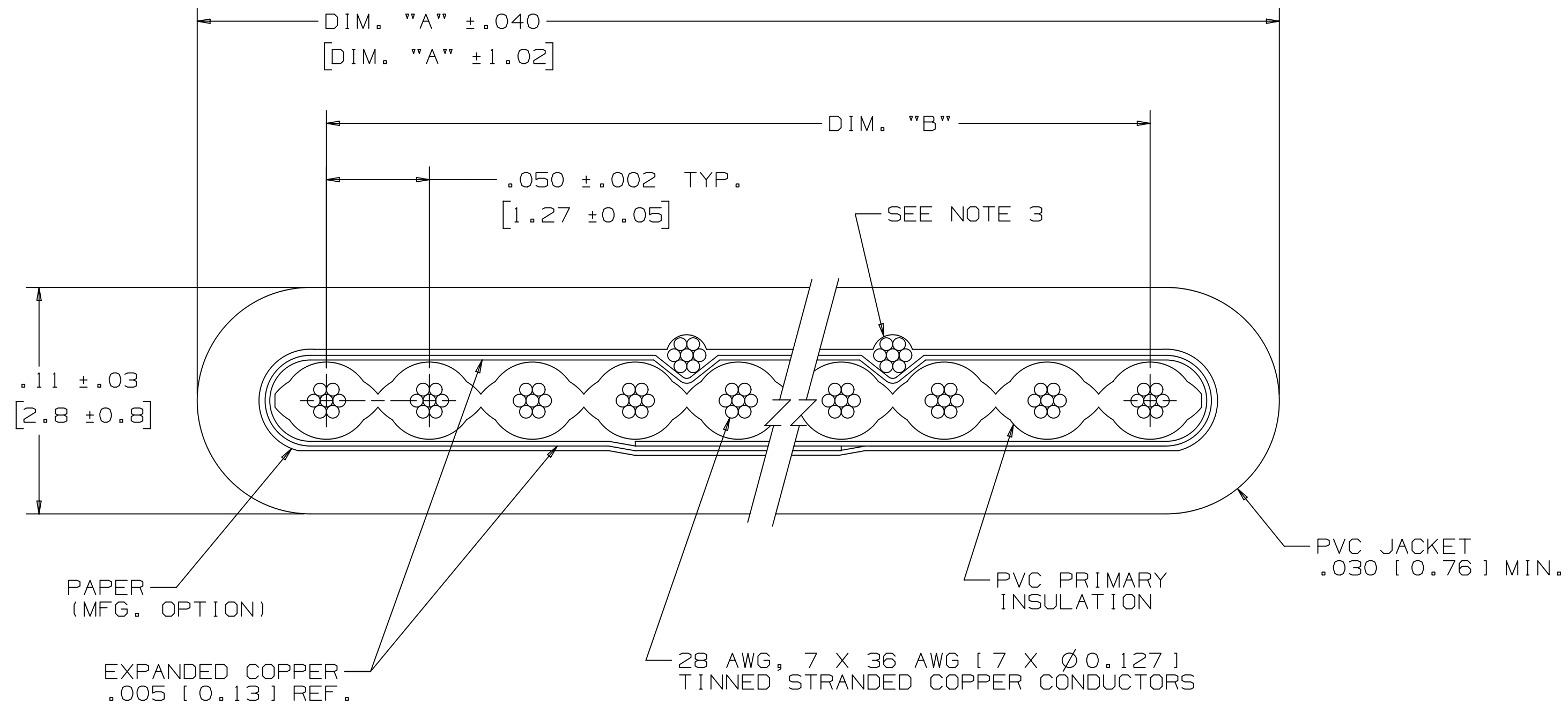


3M™ SHIELDED/JACKETED, FLAT CABLE, 3517 SERIES
.050" 28 AWG STRANDED, PVC/PVC



ORDERING INFORMATION

X 35 17 / 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.

- * 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 :

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INSULATION:
JACKET MATERIAL: POLYVINYL CHLORIDE (PVC)
COLOR: BLACK
PRIMARY MATERIAL: PVC
COLOR: GRAY

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SHIELDING MATERIAL: EXPANDED COPPER

MARKING: SEE "PRINTING ILLUSTRATION" BELOW
STANDARD: 28 AWG, 7 X 36 AWG [7 X Ø0.127] TINNED
CONDUCTORS: STRANDED COPPER ALLOY

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]	
	UNBALANCED	BALANCED
CHARACTERISTIC IMPEDANCE	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

"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]


3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3M.com/interconnect>


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INFORMATION CALL 800-225-5373

NOTES	
1.	REGULATORY INFORMATION: VISIT 3M.com/regs
2	IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
3	2 OPTIONAL DRAIN WIRES: <ul style="list-style-type: none"> - ARE NOT JACKETED. - 28 AWG, 7 x 36 AWG [7 x Ø 0.127] TPC. - WIRE PAIR CENTERED ON CABLE - 9-10 CONDUCTOR COUNT: .25" SPACING. - >10 CONDUCTOR COUNT: .50" SPACING.

E	I 15516	APR 17, 2024	JNC	FJR
ADD DRAIN WIRES AND REDRAWN				
D	26252	DEC 08, 2009	RE	RE
REVISE JACKET				
C	23275	MAY 07, 2009	RE	RE
REV NOTES				
B	19240	JUN 17, 2008	RR	RR
REVISE				
A	AT2054	NOV 15, 2006	RR	RR
REVISE AND PUT IN PLM				
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	CAS1 IGL1 ONE	DATE APR 15, 2024	MFG	DATE
CHKD		DATE	APPRV. E - RODRIGUEZ	DATE APR 15, 2024
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TITLE				
SHIELD/JACKET, FLAT CABLE 3517, .050" 28AWG STRND, PVC				
CAGE NUMBER	SIZE	DRAWING NO.		REV.
D		78-5100-0069-4		E
MODEL	3517	DET. LISTS	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	SHT 1 OF 2

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

DESIGN REFERENCE		NEXT ASSEMBLY	
ACCESS CODES			
DIVISION		DIVISION CODE	
DO NOT SCALE DRAWING		EMSD	
		TOLERANCES EXCEPT AS NOTED INCHES .0 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0002	
THIRD ANGLE PROJECTION		MILLIMETERS	
INTERPRET PER ASME Y14.5 - 2018		0 ± .0 ± .00 ± .000 ±	
MAX SURFACE ROUGHNESS <input checked="" type="checkbox"/> ALL SURFACES		<input checked="" type="checkbox"/> ALL SURFACES <input type="checkbox"/> MARKED ONLY	
✓		ANGLES ±	

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SHIELD/JACKET, FLAT
CABLE 3517, .050"
28AWG STRND, PVC

CAGE NUMBER	SIZE D	DRAWING NO. 78-5100-0069-4		REV. E
MODEL 3517		DET. LISTS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	SHT 1 OF 2	

CAV[®] US

UL FILE NO: E118773
UL STYLE NO: 20879

8

7

6

5

4

3

2

1

3M™ SHIELDED/JACKETED, FLAT CABLE, 3517 SERIES

.050" 28 AWG STRANDED, PVC/PVC

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THIRD ANGLE PROJECTION

MAX SURFACE ROUGHNESS

ALL SURFACES

MARKED ONLY

SCALE

TOLERANCES EXCEPT AS NOTED

INCHES

MILLIMETERS

ANGLES

3M

3M Center
St. Paul,
MN 55144

TITLE

CAGE NUMBER

SIZE

DRAWING NO.

REV.

SHIELD/JACKET, FLAT
CABLE 3517, .050"
28AWG STRND, PVC

D78-5100-0069-4

E

MODEL

3517

DET

LISTS

YES

NO

SHT 2 OF 2

REV

ECO

ISSUE DATE AND DESCRIPTION

DRFT

CHKD

REV

ECO

DATE

DATE

DATE

DATE

DATE

DATE

DRFT

CAST

GL

ONE

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APR 15, 2024

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APPR

E. RODRIGUEZ

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REVISE JACKET

REV NOTES

REVISE

REVISE AND PUT IN PLM

78-5100-0069-4

Revision Number

8

7

6

5

4

3

2

1

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