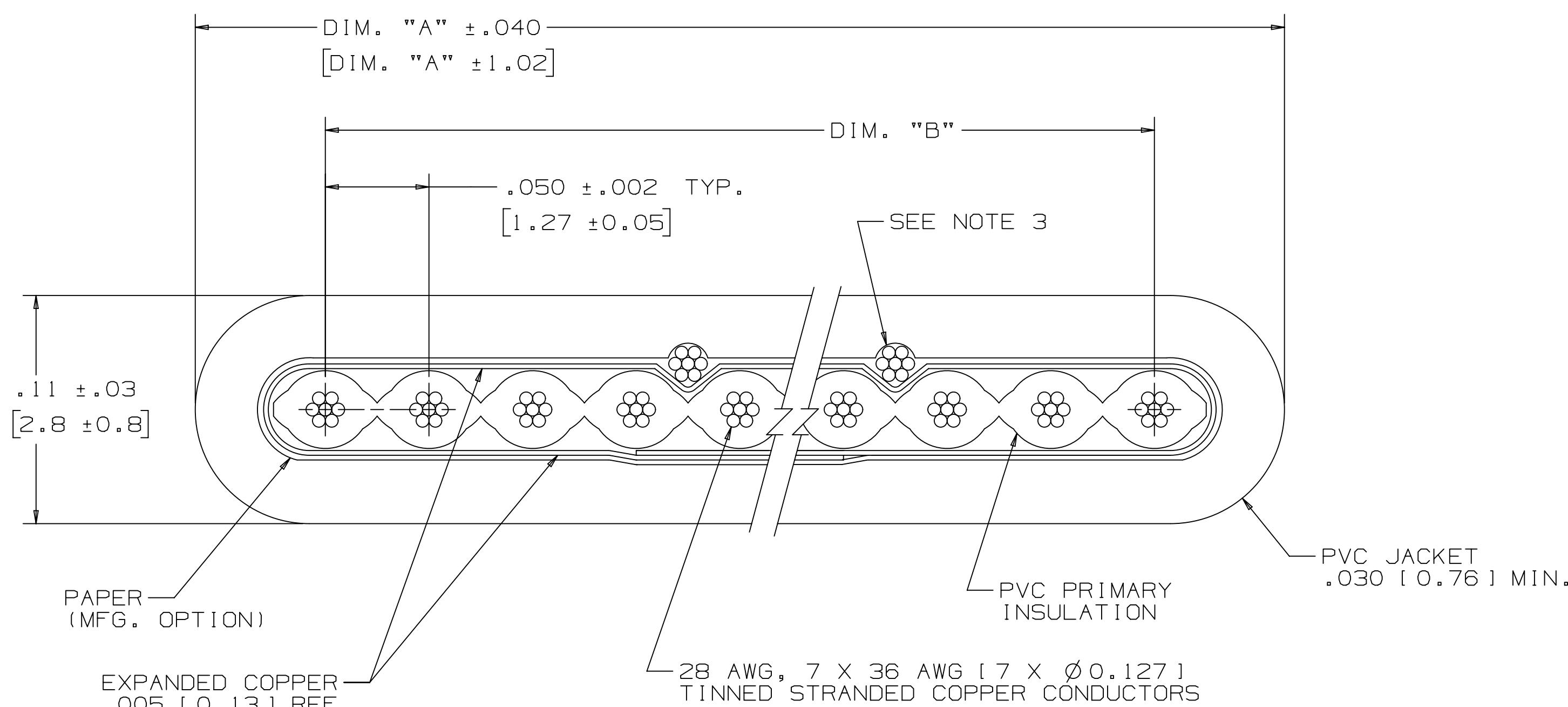


3M™ SHIELDED/JACKETED, FLAT CABLE, 3517 SERIES
.050" 28 AWG STRANDED, PVC/PVC



- * 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 Ø 0.127] TINNED STRANDED COPPER ALLOY

TABLE 2
ELECTRICAL CHARACTERISTICS

VOLTAGE RATING	USA: N.E.C. 725, CL2 OR AWM 300V, CANADA: <50V, EU: <50V	PRIMARY CABLE >1 X 10 ¹⁰ Ω/10 FT [3 m]
INSULATION RESISTANCE		
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
FLAMMABILITY RATING: USA: N.E.C. 725, CL2
CANADA: 80°C
CANADA: FT1

ORDERING INFORMATION

X 3517/XX XX DW

BLANK = STANDARD
C = CANADIAN
CERTIFIED
VERSION
OPTIONAL DRAIN WIRES
(SPECIAL)
BLANK = STANDARD
SF = SPLICER 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"
CL2 75C 28 AWG OR AWM 20879 3M NU 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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UL FILE NO: E118773
UL STYLE NO: 20879

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
ACCESS CODES	CASTIGLIONE	DIVISION	EMSD					
DO NOT SCALE DRAWING	SCALE DRAWING	TOLERANCES EXCEPT AS NOTED						
		INCHES						
		.0 ± .1						
		.00 ± .01						
		.000 ± .005						
		.0000 ± .0002						
THIRD ANGLE PROJECTION								
INTERPRET PER ASME Y14.5 - 2018								
		MILLIMETERS						
		.0 ± .1						
		.00 ± .01						
		.000 ± .005						
		.0000 ± .0002						
MAX SURFACE ROUGHNESS								
DETAILED SURFACES								
MARKED ONLY								
ANGLES								
CAGE NUMBER	SIZE	DRAWING NO.						
D	78-5100-0069-4	E						
REV.								
DET.								
LISTS								
YES								
NO								
SHT 1 OF 2								

78-5100-0069-4 | EDITION
B

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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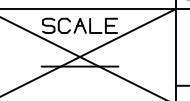
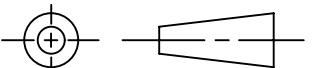
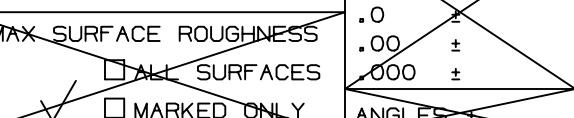
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		E	115516	APR 17, 2024	JNC	FJR
				ADD DRAIN WIRES AND REDRAWN		
		D	26252	DEC 08, 2009 REVISE JACKET	RE	RE
		C	23275	MAY 07, 2009 REV NOTES	RE	RE
		B	19240	JUN 17, 2008 REVISE	RR	RR
		A	AT2054	NOV 15, 2006 REVISE AND PUT IN PLM	RR	RR
DESIGN REFERENCE		REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
ACCESS CODES		DRFT CASTIGLIONE		DATE APR 15, 2024	MFG	DATE
DIVISION		CHKD		DATE	APPVL E. RODRIGUEZ	DATE APR 15, 2024
DO NOT SCALE DRAWING		DIVISION CODE EMSD		 3M Center St. Paul, MN 55144		
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 INTERPRET PER ASME Y14.5 - 2018		INCHES		TITLE		
MAX SURFACE ROUGHNESS <input type="checkbox"/> ALL SURFACES <input type="checkbox"/> MARKED ONLY		 MILLIMETERS  ANGLES		SHIELD/JACKET, FLAT CABLE 3517, .050 ⁷⁷ 28AWG STRND, PVC		
		CAGE NUMBER	SIZE	DRAWING NO.	REV.	
		D		78-5100-0069-4	E	
		MODEL	3517	DET. LISTS	□ YES <input checked="" type="checkbox"/> NO	SHT 2 OF 2