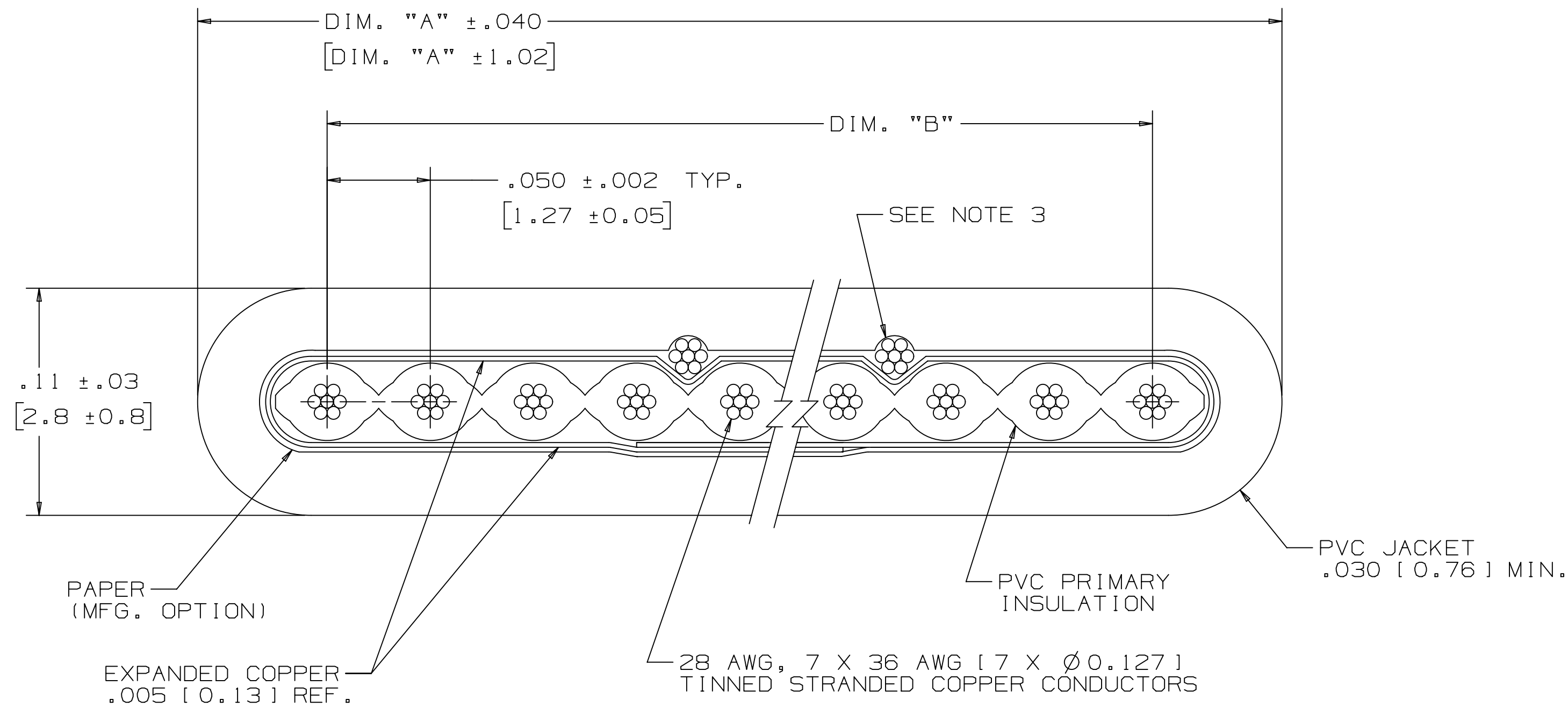


3M™ SHIELDED/JACKETED, FLAT CABLE, 3517 SERIES
.050" 28 AWG STRANDED, PVC/PVC



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 :

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

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
CONTAINED THIS DATA AND THAT
CONTAINED IN THE PRODUCT
SPECIFICATION, THE PRODUCT
SPECIFICATION TAKES PRECEDENT.
3. 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.

E	I15516	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	CAST IGL LIONE	APR 15, 2024	MRS	DATE	
CHKD	DATE		APPROV E. RODRIGUEZ	DATE APR 15, 2024	
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">  <p>3M Center St. Paul, MN 55144</p> </div> <div style="width: 65%;"> <p>© 3M COPYRIGHT 2024</p> <p>This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed otherwise than for 3M authorized purposes. All rights reserved.</p> </div> </div>					
TITLE					
SHIELD/JACKET, FLAT CABLE 3517, .050" ^Ø 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
ASSEMBLY CODES			
DIVISION			DIVISION CODE EMSD
DO NOT SCALE DRAWING	SCALE ---		TOLERANCES EXCEPT AS NOTED
			INCHES .0 ± .1 .00 ± .01 .000 ± .005 .0000 ± .0002
THIRD ANGLE PROJECTION			MILLIMETERS 0 ± 0 ± 0 ± .00 ± .000 ±
INTERPRET PER ASME Y14.5 - 2018			
MAX SURFACE ROUGHNESS		ALL SURFACES	ANGLES ±
✓ MARKED ONLY			

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TITLE	DESCRIPTION
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

UL[®]
US

UL FILE NO: E118773
UL STYLE NO: 20879

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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3M Company
Electronics Materials Solutions Division
13011 McCallen Pass, Bldg. C
Austin, TX 78753-5380
1-800-225-5373
www.3M.com/interconnect

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