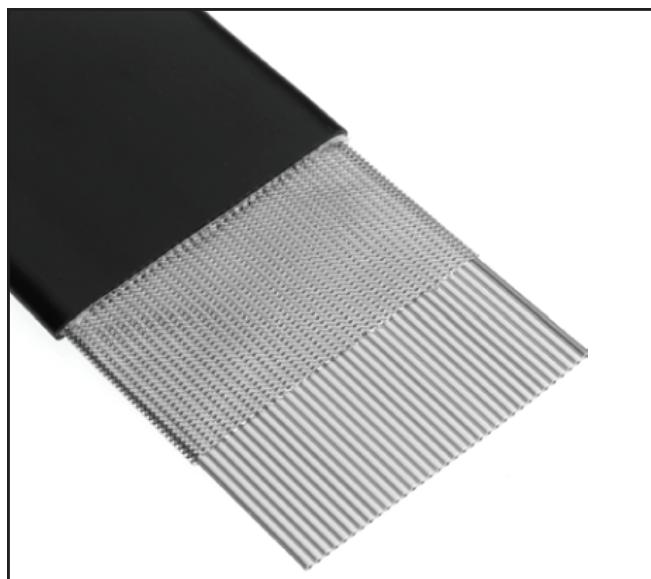


3M™ Shielded/Jacketed, Flat Cable

.050" 28 AWG Stranded, PVC/PVC

3517 Series



- 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 broad line of IDC connectors
- 360 degree expanded copper shielding provides 20 db average shielding effectiveness
- Primary cable is zippable for branching or discrete terminations
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3M.com/Interconnects for compliance information (RIA E1 & C1 apply)

Date Modified: December 8, 2009

TS-0069-D
Sheet 1 of 2

Physical

Jacket Material: Polyvinyl Chloride (PVC)

Color: Black

Primary Material: PVC

Color: Gray

Marking:

Standard: (UL) CL2 75C 28 AWG or AWM 20879 3M NU C  AWM IIA/B 80C 300V FT1 EU <50V

Conductors: 28 AWG, 7 x 36 AWG [7 x Ø 0.127] Tinned Stranded Copper

Shielding Material: Expanded Copper

Electrical

Voltage Rating: USA: N.E.C. 725, CL2 or AWM 300V Canada: <50V EU: <50V

Insulation Resistance: (Primary Cable) $> 1 \times 10^{10} \Omega/10 \text{ ft.} [3 \text{ m}]$

Characteristic Impedance:	Unbalanced 70 Ω	Balanced 119 Ω
----------------------------------	---------------------------	--------------------------

Capacitance: 21.5 pF/ft [70.5 pF/m]

12.7 pF/ft [41.7 pF/m]

Inductance: 0.11 $\mu\text{H}/\text{ft}$ [0.35 $\mu\text{H}/\text{m}$]

0.18 $\mu\text{H}/\text{ft}$ [0.59 $\mu\text{H}/\text{m}$]

Propagation Delay: 1.51 ns/ft [4.95 ns/m]

1.51 ns/ft [4.95 ns/m]

Velocity of Propagation: 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.

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

UL File No.: E118773, Power Limited Circuit Cable: CL2 (or AWM Style 20879)

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Interconnect Solutions

<http://www.3M.com/interconnects/>

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3517 Series

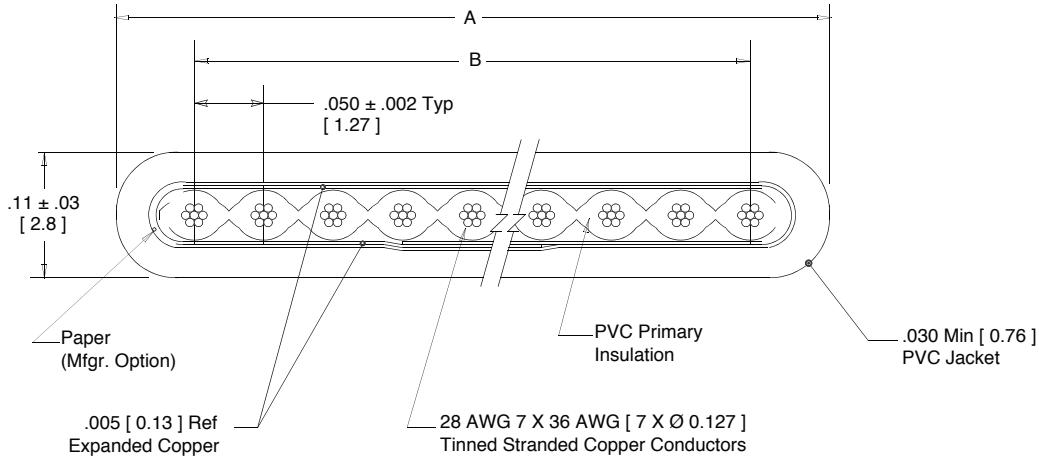


Inch
[mm]

Tolerance Unless Noted			
	.0	.00	.000
Inch	$\pm .1$	$\pm .01$	$\pm .005$

[] Dimensions for Reference Only

Number of Conductors	3M Part Number	Dimension A $\pm .040"$	Dimension B
09	3517/09	.58 [14.7]	$0.400 \pm .007$ [10.16]
10	3517/10	.63 [16.0]	$0.450 \pm .007$ [11.43]
14	3517/14	.83 [21.1]	$0.650 \pm .007$ [16.51]
15	3517/15	.88 [22.4]	$0.700 \pm .007$ [17.78]
16	3517/16	.93 [23.6]	$0.750 \pm .011$ [19.05]
20	3517/20	1.13 [28.7]	$0.950 \pm .011$ [24.13]
24	3517/24	1.33 [33.8]	$1.150 \pm .011$ [29.21]
25	3517/25	1.38 [35.0]	$1.200 \pm .011$ [30.48]
26	3517/26	1.43 [36.3]	$1.250 \pm .011$ [31.75]
30	3517/30	1.63 [41.4]	$1.450 \pm .015$ [36.83]
34	3517/34	1.83 [46.5]	$1.650 \pm .015$ [41.91]
36	3517/36	1.93 [49.0]	$1.750 \pm .015$ [44.45]
37	3517/37	1.98 [50.3]	$1.800 \pm .015$ [45.72]
40	3517/40	2.13 [54.1]	$1.950 \pm .015$ [49.53]
50	3517/50	2.63 [66.8]	$2.450 \pm .015$ [62.23]
60	3517/60	3.13 [79.5]	$2.950 \pm .015$ [74.93]
64	3517/64	3.38 [85.9]	$3.150 \pm .015$ [80.01]



Note: Red marking on edge of primary cable designates wire #1.

Ordering Information

3517/XX XX

Blank = Standard

C = Canadian Certified Version

Number of Conductors
(See Table)

Blank = Standard
SF = Splice Free

Note: Available in standard 100 ft or 300 ft rolls, please specify when ordering. Contact 3M for availability of additional conductor counts and/or custom roll lengths.

TS-0069-D
Sheet 2 of 2

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