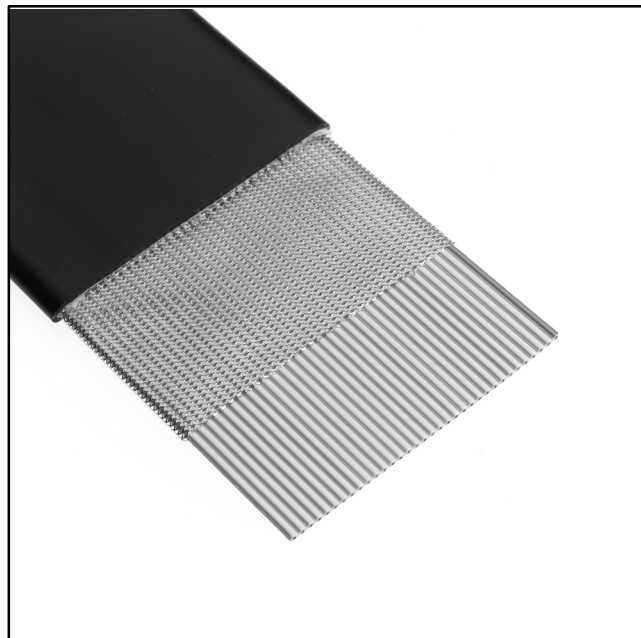


# 3M™ Shielded/Jacketed, Flat Cable

.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

Date Modified: May 30, 2003

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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  AWM IIA/B 80C 300V FT1  
EU <50V

**Conductors:** 28 AWG 7 × 36 [ 7 × 0.127 ] Tinned Stranded Copper

**Shielding Material:** Expanded Copper

## Electrical

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

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

|                                  | Unbalanced                                   | Balanced                                     |
|----------------------------------|----------------------------------------------|----------------------------------------------|
| <b>Characteristic Impedance:</b> | 70 $\Omega$                                  | 119 $\Omega$                                 |
| <b>Capacitance:</b>              | 21.5 pF/ft (70.5 pF/m)                       | 12.7 pF/ft (41.7 pF/m)                       |
| <b>Inductance:</b>               | .11 $\mu\text{H/ft}$ (0.36 $\mu\text{H/m}$ ) | .19 $\mu\text{H/ft}$ (0.62 $\mu\text{H/m}$ ) |
| <b>Propagation Delay:</b>        | 1.51 ns/ft (4.95 ns/m)                       | 1.51 ns/ft (4.95 ns/m)                       |
| <b>Velocity of Propagation:</b>  | 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.

## 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)



Interconnect Solutions

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For technical, sales or ordering information call

**800-225-5373**

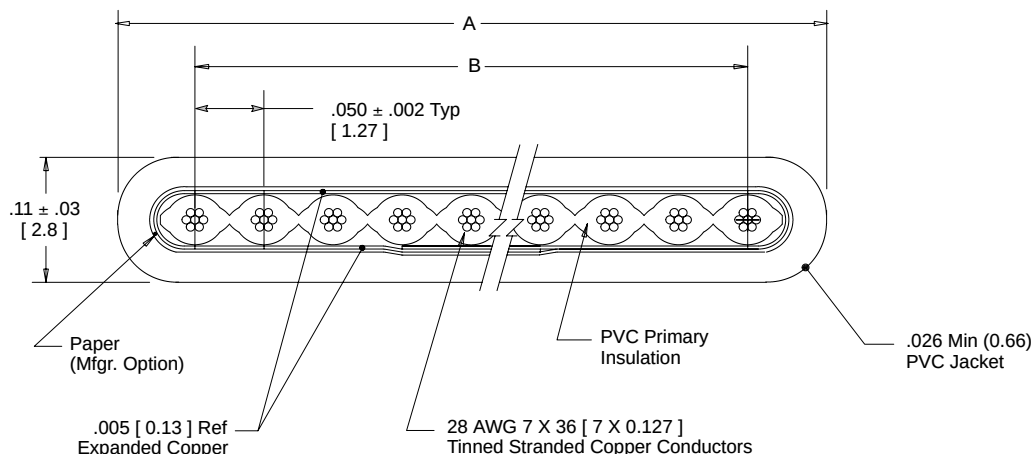
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## .050" 28 AWG Stranded, PVC/PVC

3517 Series



| Number of Conductors | 3M Part Number | Dimension A ± .04 | Dimension B            |
|----------------------|----------------|-------------------|------------------------|
| 09                   | 3517/09        | .58 [ 14.7 ]      | 0.400 ± .007 [ 10.16 ] |
| 10                   | 3517/10        | .63 [ 16.0 ]      | 0.450 ± .007 [ 11.43 ] |
| 14                   | 3517/14        | .83 [ 21.1 ]      | 0.650 ± .007 [ 16.51 ] |
| 15                   | 3517/15        | .88 [ 22.4 ]      | 0.700 ± .007 [ 17.78 ] |
| 16                   | 3517/16        | .93 [ 23.6 ]      | 0.750 ± .011 [ 19.05 ] |
| 20                   | 3517/20        | 1.13 [ 28.7 ]     | 0.950 ± .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 ] |



Inch  
[mm]

| Tolerance Unless Noted |     |      |       |
|------------------------|-----|------|-------|
|                        | .0  | .00  | .000  |
| Inch                   | ±.1 | ±.05 | ±.010 |

[ ] Dimensions for Reference only

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

## Ordering Information

**3517/XX**

Number of Conductors  
(See Table)

Note: Standard length is 100 ft/roll.

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Sheet 2 of 2

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