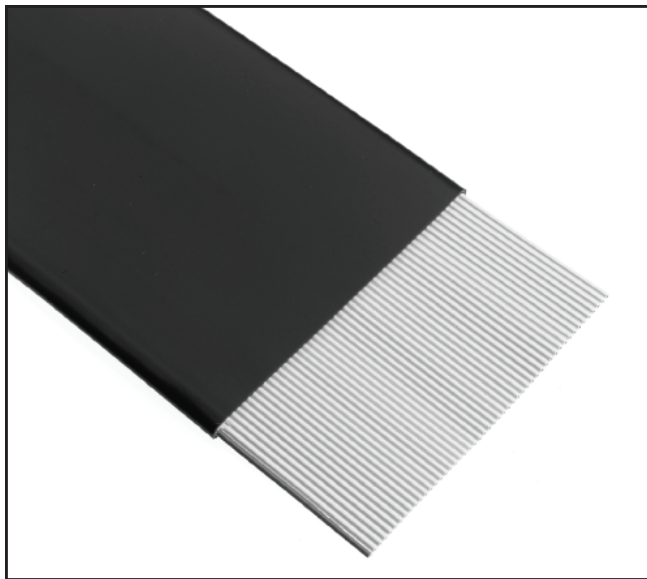


# 3M™ Jacketed, Flat Cable

.050" 28 AWG Stranded, PVC/PVC

3603 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
- PVC outer jacket prevents damage to cable
- 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](http://www.3M.com/Interconnects) for compliance information (RIA E1 & C1 apply)

Date Modified: December 8, 2009

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## 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 × 36 AWG [ 7 × 0.127 ] Tinned Stranded Copper

## Electrical

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

**Insulation Resistance:** (Primary Cable) > 1 × 10<sup>10</sup> Ω/10 ft. [ 3 m ]

	<b>Unbalanced</b>	<b>Balanced</b>
<b>Characteristic Impedance:</b>	95 Ω	160 Ω

<b>Capacitance:</b>	15.5 pF/ft [ 62.3 pF/m ]	9.4 pF/ft [ 36.4 pF/m ]
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<b>Inductance:</b>	0.14 μH/ft [ 0.43 μH/m ]	0.24 μH/ft [ 0.79 μH/m ]
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<b>Propagation Delay:</b>	1.47 ns/ft [ 4.82 ns/m ]	1.50 ns/ft [ 4.92 ns/m ]
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<b>Velocity of Propagation:</b>	69%	68%
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Note: Unbalanced is measured between ground-signal-ground conductors. Balanced is measured between signal conductors within a pair.

## 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 No: 20879)

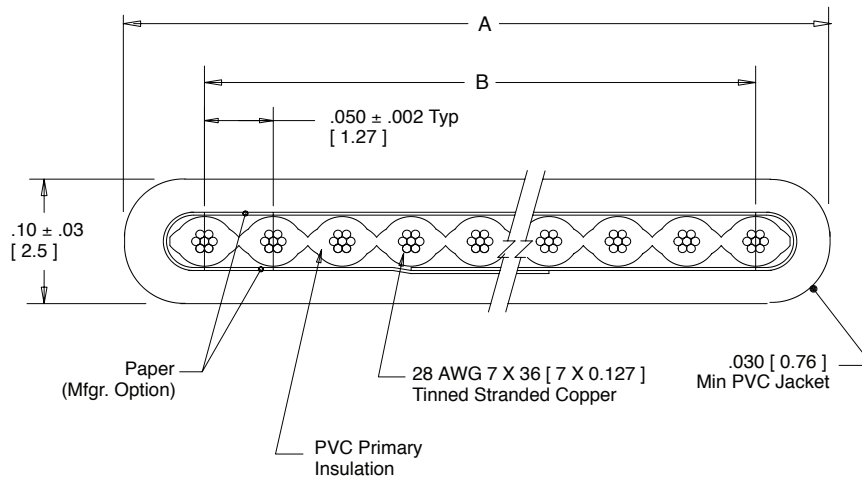
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Number of Conductors	3M Part Number	Dimension A ± .040"	Dimension B
10	3603/10	.58 [ 14.70 ]	0.450 ± .007 [ 11.43 ]
16	3603/16	.88 [ 22.40 ]	0.750 ± .011 [ 19.05 ]
20	3603/20	1.08 [ 27.40 ]	0.950 ± .011 [ 24.13 ]
25	3603/25	1.33 [ 33.80 ]	1.200 ± .011 [ 30.48 ]
26	3603/26	1.38 [ 35.10 ]	1.250 ± .011 [ 31.75 ]
34	3603/34	1.78 [ 45.20 ]	1.650 ± .015 [ 41.91 ]
36	3603/36	1.88 [ 47.80 ]	1.750 ± .015 [ 44.45 ]
37	3603/37	1.93 [ 49.02 ]	1.800 ± .015 [ 45.72 ]
40	3603/40	2.08 [ 52.83 ]	1.950 ± .015 [ 49.53 ]
50	3603/50	2.58 [ 65.53 ]	2.450 ± .015 [ 62.23 ]
60	3603/60	3.08 [ 78.20 ]	2.950 ± .015 [ 74.93 ]
64	3603/64	3.28 [ 83.30 ]	3.150 ± .015 [ 80.01 ]



Inch [mm]			
Tolerance Unless Noted			
	.0	.00	.000
Inch	±.1	±.05	±.010

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

[ ] Dimensions for Reference Only

## Ordering Information

**3603/XX XX**

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.

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