

3M™ Round, Jacketed, Flat Cable

.050" 28 AWG Stranded, Mass-Term, PVC/PVC

3834 Series



- High flex life cable product in a round jacketed construction permits flexing
- Round construction permits easier routing
- 28 AWG wire on .050 inch wire spacing permits mass termination to broad line of IDC connectors
- Continuous split/bond repeat allows for mass termination on 2.4 inch centers (approximate)
- Meets external wiring requirements of National Electrical Code, Article 725 (CL2)
- Primary cable is zippable for branching or discrete terminations
- UL listed for USA and Canadian markets
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3Mconnector.com for compliance information (RIA E1 & C1 apply)

Date Modified: July 13, 2010

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Physical

Jacket Material: Polyvinyl Chloride (PVC)

Color: Black

Primary Material: PVC

Marking Standard: (UL) CL2 75C 28 AWG 3M NU AWM IIA/B 80C 300V FT1 EU <50V
28 AWG, 19 × 40 AWG [19 × ϕ 0.79] Silver Plated Stranded Copper Alloy

Conductors: (89% conductivity)

Inner Wrap: Polyester Film

Electrical

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

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

Characteristic Impedance:	Unbalanced	Balanced
	75 Ω	128 Ω

Capacitance: 22.4 pF/ft [73.5 pF/m]	12.8 pF/ft [42.00 pF/m]
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Inductance: 0.12 $\mu\text{H/ft}$ [0.41 $\mu\text{H/m}$]	0.21 $\mu\text{H/ft}$ [0.69 $\mu\text{H/m}$]
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Propagation Delay: 1.67 ns/ft [1.57 ns/m]	1.64 ns/ft [5.38 ns/m]
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Velocity of Propagation: 61%	62%
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Note: Unbalanced is measured between ground-signal-ground conductors. Balanced is measured between conductors within a pair.

Environmental

Temperature Rating: USA: CL2: 75°C; Canada: 80°C

Flammability Rating: USA: N.E.C. 725, CL2; Canada: FT1

UL File No.: E118773, Power Limited Circuit Cable: CL2

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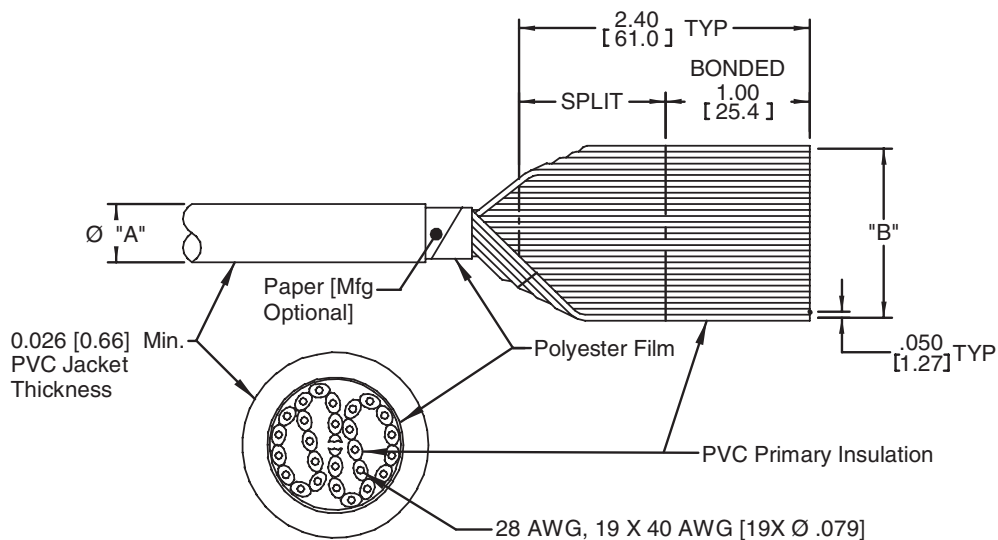


Inch
[mm]

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

[] Dimensions for Reference Only

Number of Conductors	3M Part Number	Dimension A ± .03	Dimension B (See Note 2)
10	3834/10	0.26 [6.6]	0.45 [11.4]
14	3834/14	0.27 [6.9]	0.65 [16.5]
16	3834/16	0.27 [6.9]	0.75 [19.1]
20	3834/20	0.30 [7.6]	0.95 [24.1]
24	3834/24	0.33 [8.4]	1.15 [29.2]
26	3834/26	0.33 [8.4]	1.25 [31.8]
34	3834/34	0.37 [9.4]	1.65 [41.9]
40	3834/40	0.39 [9.9]	1.95 [49.5]
50	3834/50	0.44 [11.2]	2.45 [62.2]
60	3834/60	0.47 [11.9]	2.95 [74.9]
64	3834/64	0.50 [12.7]	3.15 [80.0]



Notes:

1. Red marking on one edge of primary cable designates wire #1.
2. Dimension B pertains to bonded area only.

Ordering Information

3834/XX XX XX

Number of Conductors
(See Table)

Blank = Standard
SO = Continuously Bonded Wire (No Split)

Blank = Standard
SF = Splice Free

Note3:

Available in standard 275 ft. Contact 3M for availability of additional conductor counts and/or custom roll lengths.

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RIA-2217B-E

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