## $3M^{\text{TM}}$ Round, Jacketed, Flat Cable

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



## **Physical**

Jacket Material:	Polyvinyl Chloride (PVC)		
Color:	Black		
Primary Material:	PVC		
Marking Standard:	(UL) CL2 75C 28 AWG 3M NU <b>34</b> AWM IIA/B 80C 300V FT1 EU <50V		
	28 AWG, 19 $\times$ 40 AWG [ 19 $\times$ ø 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)> $1 \times 10^{10} \Omega/10$ ft. [ 3 m ]		
Characteristic Impedance:	Unbalanced 75 Ω	<b>Balanced</b> 128 Ω	
Capacitance:	22.4 pF/ft [ 73.5 pF/m ]	12.8 pF/ft [ 42.00 p	oF/fm]
Inductance:	0.12 µH/ft [ 0.41 µH/m ]	0.21 µH/ft [ 0.69 µ	H/m ]
<b>Propagation Delay:</b>	1.67 ns/ft [ 1.57 ns/m ]	1.64 ns/ft [ 5.38 ns/	/m ]
Velocity of Propagation:	61%	62%	

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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Number of **Dimension B** 3M Part Number Dimension A ± .03 Conductors (See Note 2) 0.26 [ 6.6 ] 3834/10 0.45 [ 11.4 ] 10 14 3834/14 0.27 [ 6.9 ] 0.65 [ 16.5 ] 3834/16 0.27 [ 6.9 ] 0.75 [ 19.1 ] Inch 16 [mm] 20 3834/20 0.30 [7.6] 0.95 [ 24.1 ] **Tolerance Unless Noted** 24 3834/24 0.33 [ 8.4 ] 1.15 [ 29.2 ] 26 3834/26 0.33 [ 8.4 ] 1.25 [ 31.8 ] .0 .00 .000 34 3834/34 0.37 [ 9.4 ] 1.65 [ 41.9 ] ±.010 Inch ±.1 ±.05 40 3834/40 0.39 [ 9.9 ] 1.95 [ 49.5 ] [] Dimensions for Reference Only 50 3834/50 0.44 [ 11.2 ] 2.45 [ 62.2 ] 2.95 [ 74.9 ] 60 3834/60 0.47 [ 11.9 ] 64 3834/64 0.50 [ 12.7 ] 3.15 [ 80.0 ] 2.40 TYP BONDED 1.00 SPI IT Ø "A' R Paper [Mfg Optional] 0.026 [0.66] Min. Polyester Film 050 [1.27]<sup>TYP</sup> **PVC** Jacket Thickness **PVC Primary Insulation** -28 AWG, 19 X 40 AWG [19X Ø .079] 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 Blank = Standard S0 = Continuously Bonded Wire (No Split) SF = Splice Free Note3: Available in standard 275 ft. Contact 3M for availability of additional TS-1006-B conductor counts and/or custom roll lengths. Sheet 2 of 2

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