

3M™ Round, Jacketed, Flat Cable

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

3759 Series



- Round construction permits easier routing
- 28 AWG wire on .050 inch centers 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
- *RoHS compliant

Date Modified: May 24, 2004

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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 20267 3M NU  AWM IIA/B 80C 300V FT1
EU <50V

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

Inner Wrap: Polyester Film

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	
Characteristic Impedance:	90 Ω	133 Ω	
Capacitance:	16.7 pF/ft (54.8 pF/m)	11.9 pF/ft (39.0 pF/m)	
Inductance:	14 $\mu\text{H/ft}$ (0.46 $\mu\text{H/m}$)	.21 $\mu\text{H/ft}$ (0.69 $\mu\text{H/m}$)	
Propagation Delay:	1.50 ns/ft (4.92 ns/m)	1.58 ns/ft (5.18 ns/m)	
Velocity of Propagation:	68%	64%	

Note: Unbalanced is measured between ground-signal-ground conductors. Balanced is measured between 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

*RoHS = Directive 2002/95/EC,
Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

UL File No.: E118773, Power Limited Circuit Cable: CL2 (or AWM Style 20267)

3M

Interconnect Solutions

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

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For technical, sales or ordering information call

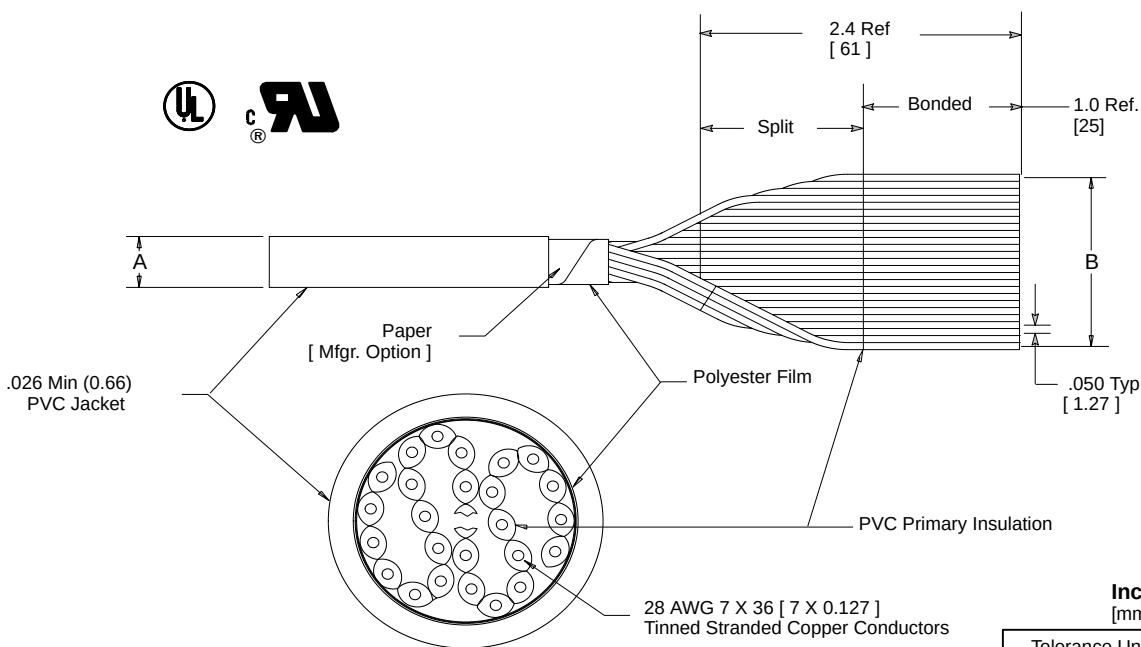
800-225-5373

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Number of Conductors	3M Part Number	Dimension A ± .03	Dimension B (See Note 2)
09	3759/09	0.26 [6.6]	0.40 [10.2]
10	3759/10	0.26 [6.6]	0.45 [11.4]
14	3759/14	0.27 [6.9]	0.65 [16.5]
15	3759/15	0.27 [6.9]	0.70 [17.8]
16	3759/16	0.27 [6.9]	0.75 [19.1]
20	3759/20	0.30 [7.6]	0.95 [24.1]
24	3759/24	0.33 [8.4]	1.15 [29.2]
25	3759/25	0.33 [8.4]	1.20 [30.5]
26	3759/26	0.33 [8.4]	1.25 [31.8]
30	3759/30	0.37 [9.4]	1.45 [36.8]
34	3759/34	0.37 [9.4]	1.65 [41.9]
36	3759/36	0.39 [9.9]	1.75 [44.5]
37	3759/37	0.39 [9.9]	1.80 [45.7]
40	3759/40	0.39 [9.9]	1.95 [49.5]
50	3759/50	0.44 [11.2]	2.45 [62.2]
60	3759/60	0.47 [11.9]	2.95 [74.9]
64	3759/64	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

3759/XX

Number of Conductors
(See Table)

Note: Available in standard length of 100 or 300 ft/roll, please specify when ordering.

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Important Notice

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