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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 bond and continuous split/bond allows for mass termination of IDC connectors
- Available in continuous bond (non–split) wire for ease of cable fabrication
- 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. See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: JUne 1, 2012

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 C VW-1 WM II A/B 80C 300V FT1 EU <50V
Conductors:	28 AWG, 7 × 36 AWG [7 × ø 0.217] 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 x 10^{10}Ω /10 ft [3 m]		
Characteristic Impedance:	**Unbalanced** 90 Ω	**Balanced** 133 Ω	
Capacitance:	16.7 pF/ft [54.8 pF/m]	11.9 pF/ft [39.0 pF/m]	
Inductance:	0.13 µH/ft [0.44 µH/m]	0.21 µH/ft [0.69 µH/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

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

3M
Electronic Solutions Division
Interconnect Solutions
http://www.3Mconnectors.com

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For technical, sales or ordering information call
800-225-5373

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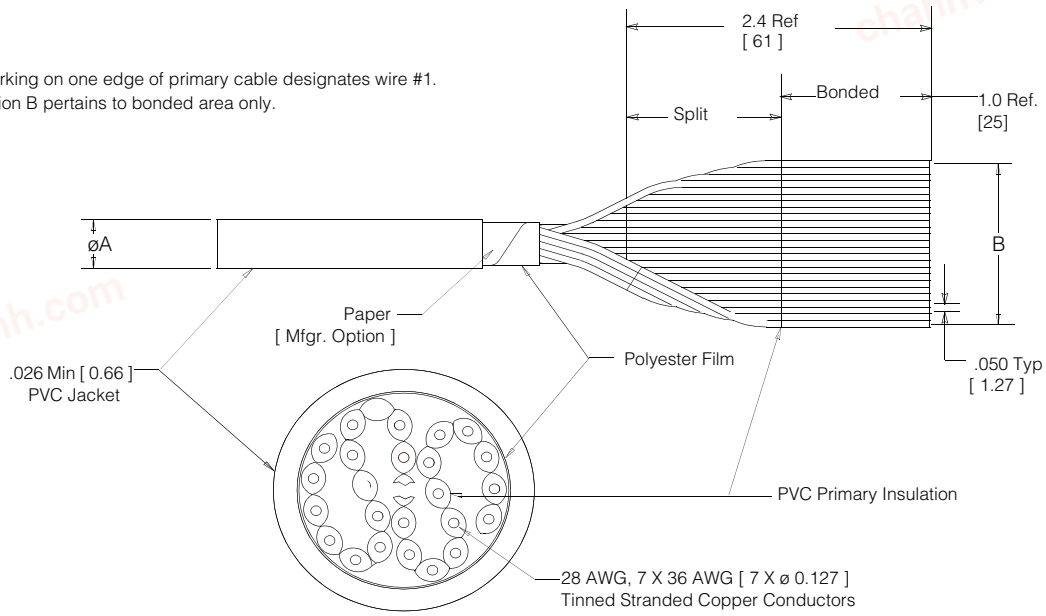
Inch
[Imm]

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

[ ] Dimensions for Reference Only

Number of Conductors	3M Part Number	Diameter 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 XX XX

- XX (last): Blank = Standard; SF = Splice Free
- XX (middle): Blank = Continuous Split/Bonded Wire (Standard); S0 = Continuously Bonded Wire (No Split)
- XX (first): Number of Conductors (See Table)

Note: Available in common lengths of 100 ft/roll or 300 ft/roll (30 m/roll or 91 m/roll), please specify when ordering.

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