

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

TS-0070-D
Sheet 1 of 2

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  WM II A/B 80C 300V FT1 EU <50V

Conductors: 28 AWG, 7 x 36 AWG [7 x ϕ 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) $>1 \times 10^{10} \Omega / 10 \text{ ft}$ [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 $\mu\text{H}/\text{ft}$ [0.44 $\mu\text{H}/\text{m}$]

0.21 $\mu\text{H}/\text{ft}$ [0.69 $\mu\text{H}/\text{m}$]

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)



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

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Inch
[Imm]

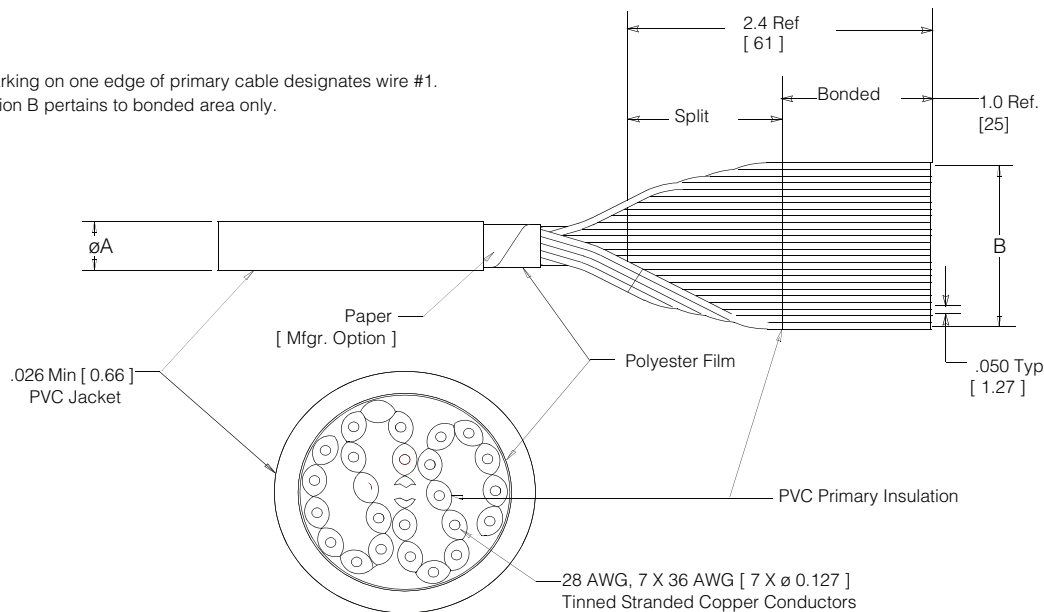
Tolerance Unless Noted			
Inch	.0	.00	.000
	±.1	±.05	±.010

[] 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

Number of Conductors
(See Table)

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

Blank = Standard
SF = Splice Free

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

TS-0070-D
Sheet 2 of 2



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