

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 recognized for USA and Canadian markets
- Visit 3M.com/regs or contact your 3M representative to find the RoHS compliance status of the 3M part you are interested in.

Date Modified: April F€, 201i

TS-0070-F
Sheet 1 of 2

Physical

Jacket Material: Polyvinyl Chloride (PVC); **Color:** Black
Primary Material: PVC; **Color:** Gray
Marking Standard: (UL) CL2 75C 28 AWG ORAWM 20267
3M NU C  AWM IIA/B 80C 300V FT1 EU <50V
Conductors: 28 AWG, 7 × 36 AWG [7 × ø 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 x 10 ¹⁰ Ω /10 ft [3 m] | | |
| Characteristic Impedance: | Unbalanced | Balanced | |
| | 90 Ω | 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)

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Inch
[Imm]

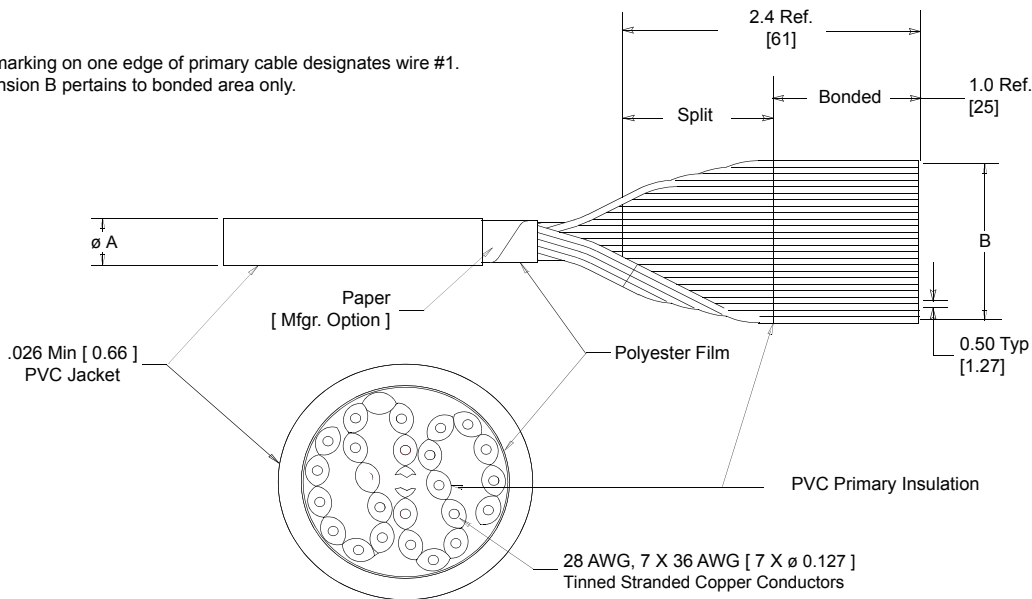
| Tolerance Unless Noted | | | |
|------------------------|-----|------|-------|
| Inch | .0 | .00 | .000 |
| | ±.1 | ±.05 | ±.010 |

[] 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 = Standard
SF = Splice Free

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

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-F
Sheet 2 of 2

Regulatory: For regulatory information about this product, contact your 3M representative.

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