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.

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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 C AWM II A/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 10⁷Ω /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%

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

3759 Series

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.

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Ordering Information

3759/XX XX XX

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

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