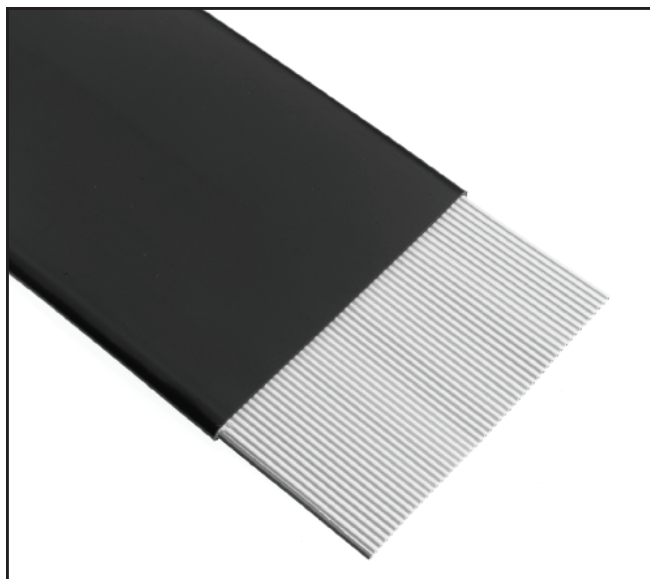


3M™ Jacketed, Flat Cable

.050" 28 AWG Stranded, PVC/PVC

3603 Series



- Meets external wiring requirements of National Electrical Code, Article 725 (CL2)
- UL listed for USA and Canadian markets
- 28 AWG stranded wire on .050 inch centers permits mass termination to broad line of IDC connectors
- PVC outer jacket prevents damage to cable
- Primary cable is zippable for branching or discrete terminations
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3M.com/Interconnects for compliance information (RIA E1 & C1 apply)

Date Modified: December 8, 2009

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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 20879 3M NU

C  AWM IIA/B 80C 300V FT1 EU <50V

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

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]

| | Unbalanced | Balanced |
|----------------------------------|-------------|--------------|
| Characteristic Impedance: | 95 Ω | 160 Ω |

| | | |
|---------------------|--------------------------|-------------------------|
| Capacitance: | 15.5 pF/ft [62.3 pF/m] | 9.4 pF/ft [36.4 pF/m] |
|---------------------|--------------------------|-------------------------|

| | | |
|--------------------|--|--|
| Inductance: | 0.14 $\mu\text{H/ft}$ [0.43 $\mu\text{H/m}$] | 0.24 $\mu\text{H/ft}$ [0.79 $\mu\text{H/m}$] |
|--------------------|--|--|

| | | |
|---------------------------|--------------------------|--------------------------|
| Propagation Delay: | 1.47 ns/ft [4.82 ns/m] | 1.50 ns/ft [4.92 ns/m] |
|---------------------------|--------------------------|--------------------------|

| | | |
|---------------------------------|-----|-----|
| Velocity of Propagation: | 69% | 68% |
|---------------------------------|-----|-----|

Note: Unbalanced is measured between ground-signal-ground conductors. Balanced is measured between signal 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 No: 20879)

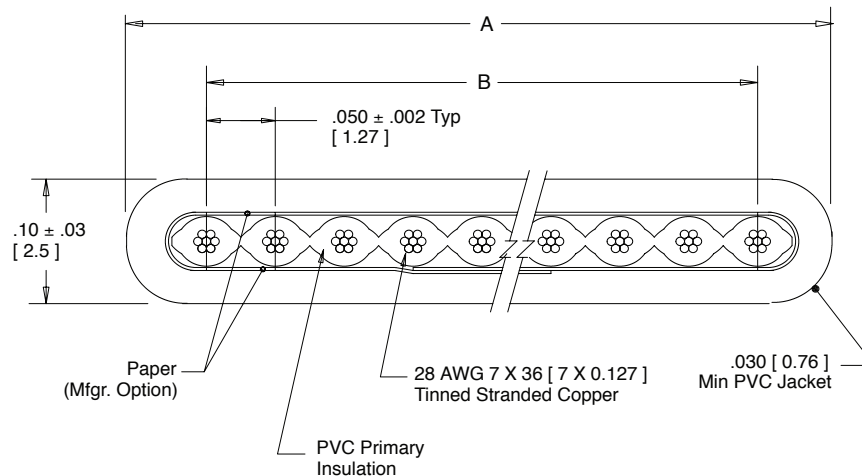
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3603 Series



| Number of Conductors | 3M Part Number | Dimension A ± .040" | Dimension B |
|----------------------|----------------|------------------------|------------------------|
| 10 | 3603/10 | .58 [14.70] | 0.450 ± .007 [11.43] |
| 16 | 3603/16 | .88 [22.40] | 0.750 ± .011 [19.05] |
| 20 | 3603/20 | 1.08 [27.40] | 0.950 ± .011 [24.13] |
| 25 | 3603/25 | 1.33 [33.80] | 1.200 ± .011 [30.48] |
| 26 | 3603/26 | 1.38 [35.10] | 1.250 ± .011 [31.75] |
| 34 | 3603/34 | 1.78 [45.20] | 1.650 ± .015 [41.91] |
| 36 | 3603/36 | 1.88 [47.80] | 1.750 ± .015 [44.45] |
| 37 | 3603/37 | 1.93 [49.02] | 1.800 ± .015 [45.72] |
| 40 | 3603/40 | 2.08 [52.83] | 1.950 ± .015 [49.53] |
| 50 | 3603/50 | 2.58 [65.53] | 2.450 ± .015 [62.23] |
| 60 | 3603/60 | 3.08 [78.20] | 2.950 ± .015 [74.93] |
| 64 | 3603/64 | 3.28 [83.30] | 3.150 ± .015 [80.01] |



Inch
[mm]

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

Note: Red marking on one edge of primary cable designates wire #1.

[] Dimensions for Reference Only

Ordering Information

3603/XX XX

Number of Conductors
(See Table)

Blank = Standard
SF = Splice Free

Note: Available in standard 100 ft or 300 ft rolls, please specify when ordering. Contact 3M for availability of additional conductor counts and/or custom roll lengths.

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Sheet 2 of 2

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