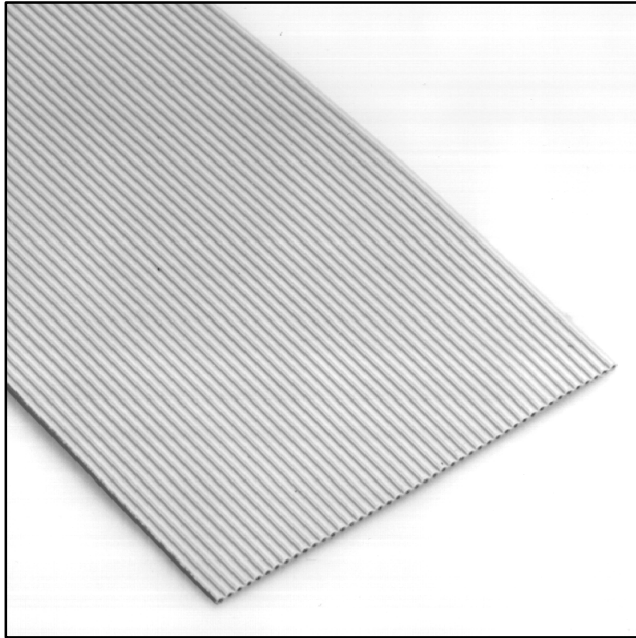


# 3M™ Round Conductor Flat Cable

1.0 mm 28 AWG Stranded, PVC

3625 Series



- 28 AWG stranded conductors on 1mm wire spacing is designed for mass termination to metric connectors
- Stranded wire provides flexibility and extended product life
- Zippable for branching or discrete termination
- RoHS compliant

Date Modified: March 23, 2004

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## Physical

### Insulation

Material: Polyvinyl Chloride (PVC)  
Color: Gray

### Marking

Standard: None

Canadian Option:  AWM 2651 105C 300V VW1 3M NU  AWM IA 105C 300V FT1  
EU <50V

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

## Electrical

|                                  |                                    |                        |          |
|----------------------------------|------------------------------------|------------------------|----------|
| <b>Voltage Rating:</b>           | USA: 300V                          | Canada: 300V           | EU: <50V |
| <b>Insulation Resistance:</b>    | >1 × 10 <sup>10</sup> Ω /10ft [3m] |                        |          |
|                                  | <b>Unbalanced</b>                  | <b>Balanced</b>        |          |
| <b>Characteristic Impedance:</b> | 92 Ω                               | 146 Ω                  |          |
| <b>Capacitance:</b>              | 54.5 pF/m (16.6 pF/ft)             | 32.2 pF/m (9.8 pF/ft)  |          |
| <b>Inductance:</b>               | 0.46 μH/m (0.14 μH/ft)             | 0.69 μH/m (0.21 μH/ft) |          |
| <b>Propagation Delay:</b>        | 4.86 ns/m (1.48 ns/ft)             | 4.69 ns/m (1.43 ns/ft) |          |
| <b>Velocity of Propagation:</b>  | 69%                                | 71%                    |          |

Note: Unbalanced is measured between ground-signal-ground conductors. Balanced is measured between signal conductors within a pair.

## Environmental

**Temperature Rating:** -20° C to +105° C

**Flammability Rating:** USA: VW-1

Canada: FT1

\*RoHS = Directive 2002/95/EC,  
Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

UL File No.: E42769, Style No.: 2651

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**Interconnect Solutions**

<http://www.3M.com/interconnects/>

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For technical, sales or ordering information call

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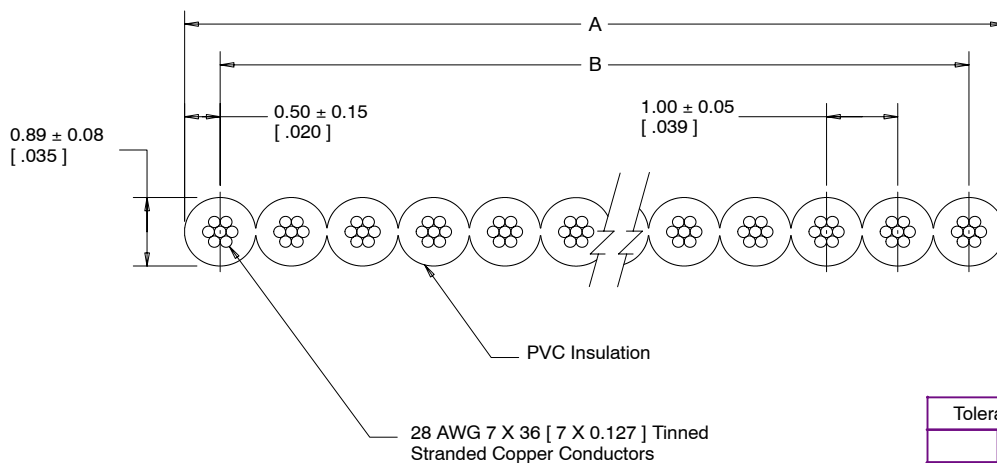
# 3M™ Round Conductor Flat Cable

## 1.0 mm 28 AWG Stranded, PVC

3625 Series



| Number of Conductors | 3M Part Number | Dimension A            | Dimension B            |
|----------------------|----------------|------------------------|------------------------|
| 06                   | 3625/06        | 6.00 ± 0.20 [ .236 ]   | 5.00 ± 0.18 [ .197 ]   |
| 08                   | 3625/08        | 8.00 ± 0.20 [ .315 ]   | 7.00 ± 0.18 [ .276 ]   |
| 10                   | 3625/10        | 10.00 ± 0.20 [ .394 ]  | 9.00 ± 0.18 [ .354 ]   |
| 12                   | 3625/12        | 12.00 ± 0.20 [ .472 ]  | 11.00 ± 0.18 [ .433 ]  |
| 14                   | 3625/14        | 14.00 ± 0.20 [ .551 ]  | 13.00 ± 0.18 [ .512 ]  |
| 16                   | 3625/16        | 16.00 ± 0.22 [ .630 ]  | 15.00 ± 0.20 [ .591 ]  |
| 18                   | 3625/18        | 18.00 ± 0.22 [ .709 ]  | 17.00 ± 0.20 [ .669 ]  |
| 20                   | 3625/20        | 20.00 ± 0.22 [ .787 ]  | 19.00 ± 0.20 [ .748 ]  |
| 22                   | 3625/22        | 22.00 ± 0.22 [ .866 ]  | 21.00 ± 0.20 [ .827 ]  |
| 24                   | 3625/24        | 24.00 ± 0.22 [ .945 ]  | 23.00 ± 0.20 [ .906 ]  |
| 26                   | 3625/26        | 26.00 ± 0.22 [ 1.024 ] | 25.00 ± 0.20 [ .984 ]  |
| 28                   | 3625/28        | 28.00 ± 0.22 [ 1.102 ] | 27.00 ± 0.20 [ 1.063 ] |
| 30                   | 3625/30        | 30.00 ± 0.25 [ 1.181 ] | 29.00 ± 0.23 [ 1.142 ] |
| 32                   | 3625/32        | 32.00 ± 0.25 [ 1.260 ] | 31.00 ± 0.23 [ 1.220 ] |
| 34                   | 3625/34        | 34.00 ± 0.25 [ 1.339 ] | 33.00 ± 0.23 [ 1.299 ] |
| 36                   | 3625/36        | 36.00 ± 0.25 [ 1.417 ] | 35.00 ± 0.23 [ 1.378 ] |
| 38                   | 3625/38        | 38.00 ± 0.25 [ 1.496 ] | 37.00 ± 0.23 [ 1.457 ] |
| 40                   | 3625/40        | 40.00 ± 0.25 [ 1.575 ] | 39.00 ± 0.23 [ 1.535 ] |
| 42                   | 3625/42        | 42.00 ± 0.25 [ 1.654 ] | 41.00 ± 0.23 [ 1.614 ] |
| 44                   | 3625/44        | 44.00 ± 0.25 [ 1.732 ] | 43.00 ± 0.23 [ 1.693 ] |
| 46                   | 3625/46        | 46.00 ± 0.25 [ 1.811 ] | 45.00 ± 0.23 [ 1.772 ] |
| 48                   | 3625/48        | 48.00 ± 0.25 [ 1.890 ] | 47.00 ± 0.23 [ 1.850 ] |
| 50                   | 3625/50        | 50.00 ± 0.25 [ 1.969 ] | 49.00 ± 0.23 [ 1.929 ] |

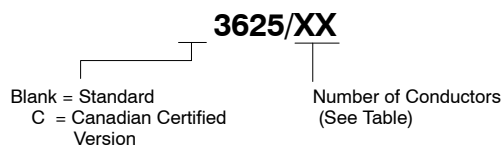


| Tolerance Unless Noted |      |       |      |
|------------------------|------|-------|------|
|                        | .0   | .00   | .000 |
| mm                     | ± .3 | ± .13 |      |

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

[ ] Dimensions for Reference only

## Ordering Information



Note: Available in 30 m and 100 m roll length. Please specify when ordering.

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### **Important Notice**

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