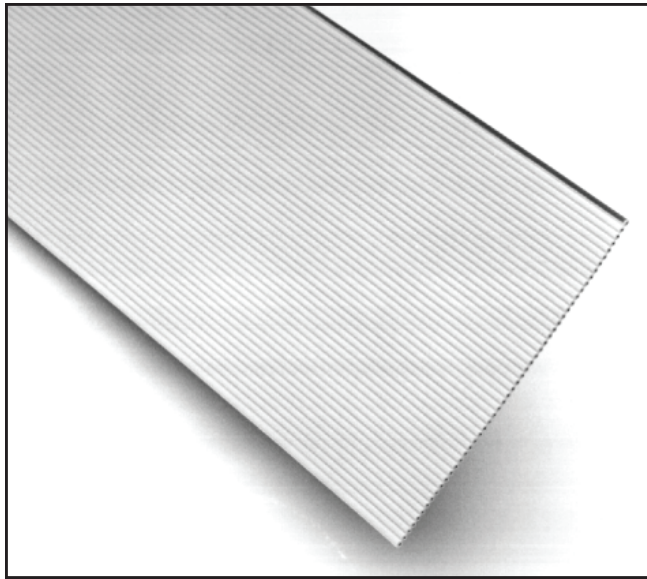


# 3M™ Round Conductor Flat Cable

.050" 28 AWG Stranded, FEP

3601 Series



- FEP insulation is compatible with most insulation displacement connectors
- .050 inch pitch parallel conductors for mass termination
- Low dielectric constant
- Excellent abrasion and chemical resistance
- Excellent mechanical durability
- Nonflammable
- UL Recognized to 200°C
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of [www.3Mconnectors.com](http://www.3Mconnectors.com) for compliance information (RIA E1 & C1 apply)

Date Modified: October 30, 2013

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## Physical

### Insulation:

Material: Fluorinated Ethylene Propylene (FEP)

Color: Blue

### Marking:

Standard: None

**Conductors:** 28 AWG, 7 × 36 AWG [ 7 × Ø 0.127 ] Silver Plated Stranded Copper

## Electrical

**Voltage Rating:** USA: 300V

EU: <50V

**Insulation Resistance:**  $> 1 \times 10^{10} \Omega/10 \text{ ft. [ 3 m ]}$

### Unbalanced

**Characteristic Impedance:** 131  $\Omega$

**Capacitance:** 9.9 pF/ft [ 32.5 pF/m ]

**Inductance:** 0.17  $\mu\text{H/ft [ 0.56 } \mu\text{H/m ]}$

**Propagation Delay:** 1.29 ns/ft [ 4.23 ns/m ]

**Velocity of Propagation:** 79%

Note: Unbalanced is measured between ground-signal-ground conductors.

## Environmental

**Temperature Rating:** -55°C to +200°C

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

UL File No.: E42769, Style No: 20424

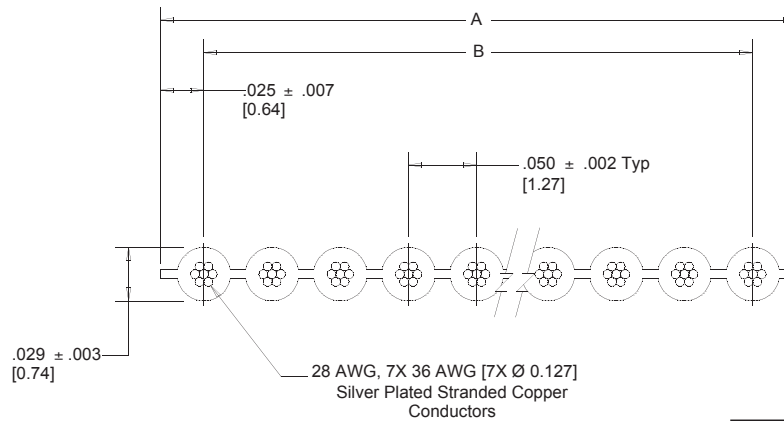
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| Number of Conductors | 3M Part Number | Dimension A          | Dimension B          |
|----------------------|----------------|----------------------|----------------------|
| 04                   | 3601/04        | 0.200 ± .008 [5.08]  | 0.150 ± .007 [3.81]  |
| 06                   | 3601/06        | 0.300 ± .008 [7.62]  | 0.250 ± .007 [6.35]  |
| 08                   | 3601/08        | 0.400 ± .008 [10.16] | 0.350 ± .007 [8.89]  |
| 10                   | 3601/10        | 0.500 ± .010 [12.70] | 0.450 ± .007 [11.43] |
| 12                   | 3601/12        | 0.600 ± .010 [15.24] | 0.550 ± .007 [13.97] |
| 14                   | 3601/14        | 0.700 ± .010 [17.78] | 0.650 ± .007 [16.51] |
| 15                   | 3601/15        | 0.750 ± .010 [19.05] | 0.700 ± .007 [17.78] |
| 16                   | 3601/16        | 0.800 ± .010 [19.05] | 0.750 ± .007 [17.78] |
| 20                   | 3601/20        | 1.000 ± .015 [25.40] | 0.950 ± .011 [24.13] |
| 25                   | 3601/25        | 1.250 ± .015 [31.75] | 1.200 ± .011 [30.48] |
| 26                   | 3601/26        | 1.300 ± .015 [33.02] | 1.250 ± .011 [31.75] |
| 30                   | 3601/30        | 1.500 ± .015 [38.10] | 1.450 ± .011 [36.83] |
| 34                   | 3601/34        | 1.700 ± .020 [43.18] | 1.650 ± .015 [41.91] |
| 40                   | 3601/40        | 2.000 ± .020 [50.80] | 1.950 ± .015 [49.53] |
| 50                   | 3601/50        | 2.500 ± .020 [63.50] | 2.450 ± .015 [62.23] |
| 60                   | 3601/60        | 3.000 ± .020 [76.20] | 2.950 ± .015 [74.93] |
| 64                   | 3601/64        | 3.200 ± .020 [81.28] | 3.150 ± .015 [40.01] |



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

| Tolerance Unless Noted |     |      |       |
|------------------------|-----|------|-------|
|                        | .0  | .00  | .000  |
| Inch                   | ±.1 | ±.01 | ±.005 |

[ ] Dimensions for Reference Only

## Ordering Information

3601/XX

Number of Conductors  
(See Table)

Note: Available in standard 100 ft rolls, contact 3M for availability of additional conductor counts and/or custom roll lengths.

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