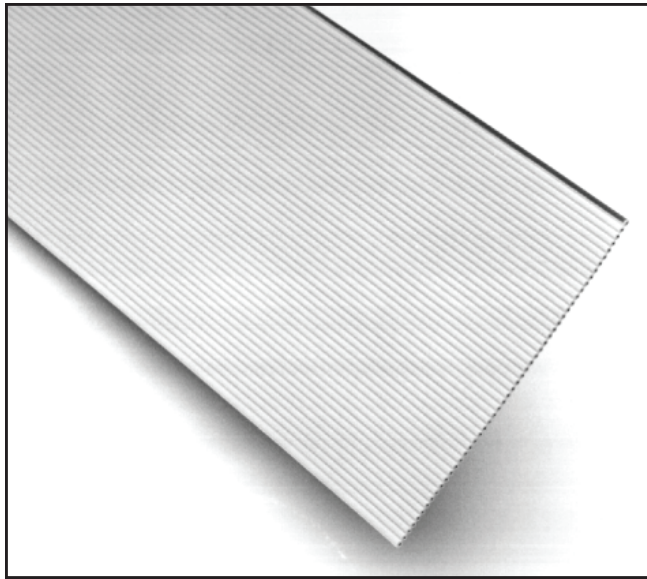


# 3M™ Round Conductor Flat Cable

.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

TS-0553-C  
Sheet 1 of 3

## 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

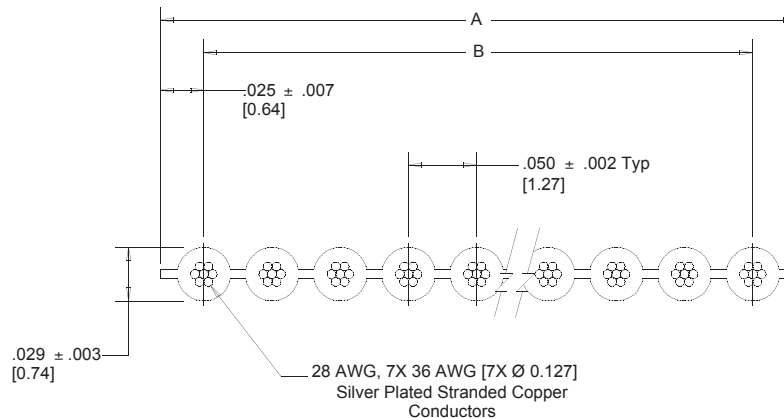
# 3M™ Round Conductor Flat Cable

.050" 28 AWG Stranded, FEP

3601 Series



| 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.

TS-0553-C  
Sheet 2 of 3

**Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

**Warranty; Limited Remedy; Limited Liability.**

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

**3M Electronics Solutions Division**

6801 River Place Blvd.  
Austin, TX 78726-9000  
U.S.A.  
1-800-225-5373  
[www.3Mconnectors.com](http://www.3Mconnectors.com)

Please recycle. Printed in USA.  
© 3M 2013. All rights reserved.  
RIA-2217B-E

3M is a trademark of 3M Company.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[3M:](#)  
[3601/12](#)