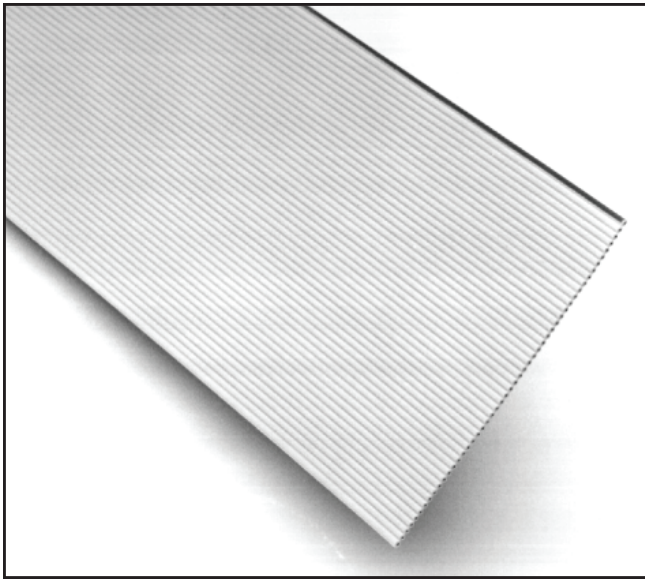


# 3M™ Round Conductor Flat Cable

.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  $\mu\text{H}/\text{ft}$  [ 0.56  $\mu\text{H}/\text{m}$  ]

**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

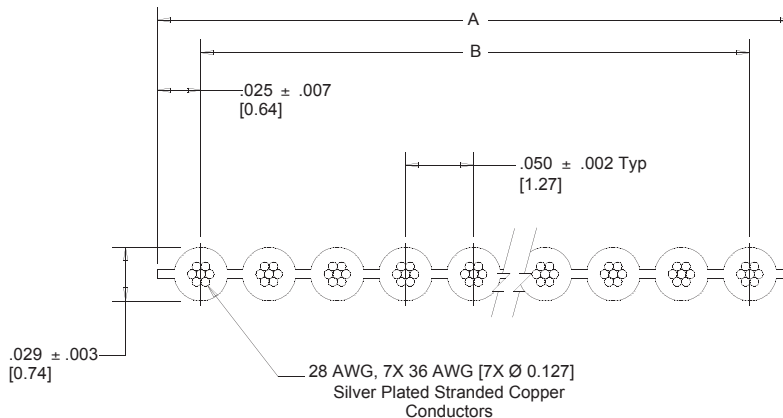
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Number of Conductors	3M Part Number	Dimension A	Dimension B
04	3601/04	0.200 ± .008 [5.08]	0.150 ± .007 [3.81]
06	3601/06	0.300 ± .008 [7.62]	0.250 ± .007 [6.35]
08	3601/08	0.400 ± .008 [10.16]	0.350 ± .007 [8.89]
10	3601/10	0.500 ± .010 [12.70]	0.450 ± .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]



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

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

[ ] 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

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