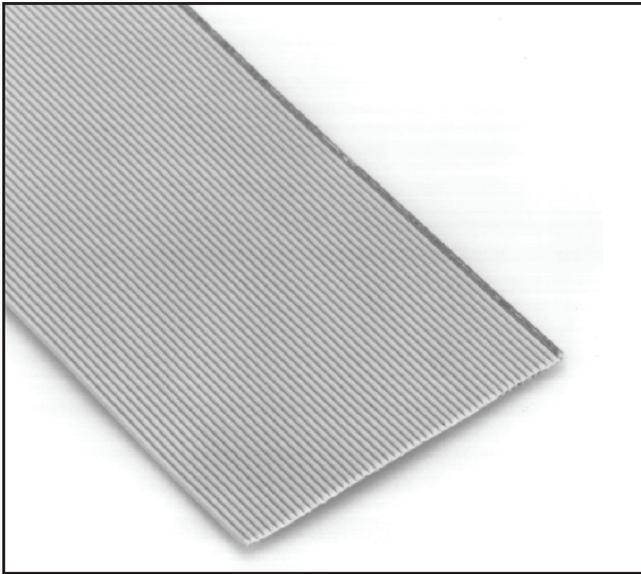


# 3M™ Round Conductor Flat Cable

.025" 30 AWG Stranded, FEP

3609 Series



- FEP insulation is compatible with most insulation displacement connectors
- .025 inch pitch parallel conductors for mass termination
- Low dielectric constant
- Excellent abrasion and chemical resistance
- Excellent mechanical durability
- Nonflammable
- UL Recognized to 150°C
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the “RoHS Compliance” section of [www.3Mconnectors.com](http://www.3Mconnectors.com) for compliance information (RIA E1 and C1 apply)

Date Modified: October 31, 2013

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## Physical

### Insulation:

Material: Fluorinated Ethylene Propylene (FEP)

Color: Opaque White

### Marking:

Standard: None

**Conductors:** 30 AWG 7 × 38 AWG [ 7 × .102 ] Silver Plated Stranded Copper

## Electrical

**Voltage Rating:** USA: 150V                      EU: <50V

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

**Characteristic Impedance:** Unbalanced: 91  $\Omega$

**Capacitance:** Unbalanced: 14.7 pF/ft [ 48.2 pF/m ]

**Inductance:** Unbalanced: 0.12  $\mu\text{H/ft [ 0.39 } \mu\text{H/m ]}$

**Propagation Delay:** Unbalanced: 1.34 ns/ft [ 4.40 ns/m ]

**Velocity of Propagation:** 76%

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

## Environmental

**Temperature Rating:** -55°C to +150°C

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

UL File No.: E42769, Style No: 20726

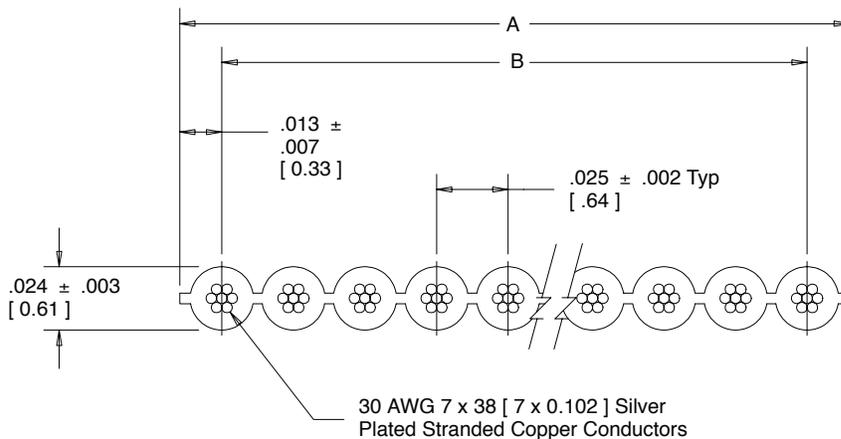
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Number of Conductors	3M Part Number	Dimension A	Dimension B
04	3609/04	0.100 ± .006 [2.54]	0.075 ± .004 [1.91]
06	3609/06	0.150 ± .006 [3.81]	0.125 ± .004 [3.18]
08	3609/08	0.200 ± .006 [5.08]	0.175 ± .004 [4.45]
10	3609/10	0.250 ± .007 [6.35]	0.225 ± .005 [5.72]
12	3609/12	0.300 ± .007 [7.62]	0.275 ± .005 [6.99]
14	3609/14	0.350 ± .007 [8.89]	0.325 ± .005 [8.26]
16	3609/16	0.400 ± .007 [10.16]	0.375 ± .005 [9.53]
20	3609/20	0.500 ± .007 [ 12.70 ]	0.475 ± .005 [ 12.07 ]
26	3609/26	0.650 ± .007 [ 16.51 ]	0.625 ± .005 [ 15.88 ]
30	3609/30	0.750 ± .007 [19.05]	0.725 ± .005 [18.42]
34	3609/34	0.850 ± .007 [21.59]	0.825 ± .005 [20.96]
36	3609/36	0.900 ± .007 [ 22.86 ]	0.875 ± .005 [ 22.23 ]
40	3609/40	1.000 ± .010 [ 25.40 ]	0.975 ± .006 [ 24.77 ]
50	3609/50	1.250 ± .010 [ 31.75 ]	1.225 ± .006 [ 31.12 ]
60	3609/60	1.500 ± .010 [ 38.10 ]	1.475 ± .006 [ 37.47 ]
64	3609/64	1.600 ± .010 [40.64]	1.575 ± .006 [40.01]
68	3609/68	1.700 ± .010 [ 43.18 ]	1.675 ± .006 [ 42.55 ]
80	3609/80	2.000 ± .010 [ 50.80 ]	1.975 ± .006 [ 50.17 ]
100	3609/100	2.500 ± .010 [ 63.50 ]	2.475 ± .006 [ 62.87 ]



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

[ ] Dimensions for Reference Only

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

## Ordering Information

**3609/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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