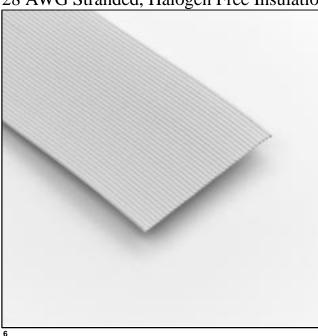
# .050" Round Conductor Flat Cable

28 AWG Stranded, Halogen Free Insulation





- Advantage of this halogen free insulation are low smoke (BSS 7238) and low toxicity of combustion gases (NES 713) reducing the risk to firefighters and low corrosivity of combustion gases (pH≈6.0) reducing damage to nearby equipment
- 28 AWG stranded conductors on .050 inch pitch permits mass terminations to a broad line of IDC connectors
- Zippable for branching or discrete termination
- Please contact your 3M sales representative for variations not described in this specification

Date Modified: December 28, 1999

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## **Physical**

**Insulation** 

Material: Halogen Free Polyolefin (PO)

Color: off-white

Marking Standard: None

**Conductors:** 28 AWG  $7 \times 36$  [  $7 \times 0.127$  ] Tinned Stranded Copper

#### **Electrical**

**Voltage Rating:** USA: 30V EU: <50V **Insulation Resistance:**  $>1 \times 10^{10} \Omega / 10 \text{ ft } [3 \text{ m}]$ 

UnbalancedBalancedCharacteristic Impedance: 107 Ω176 Ω

Velocity of Propagation: 68% 70%

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

#### **Environmental**

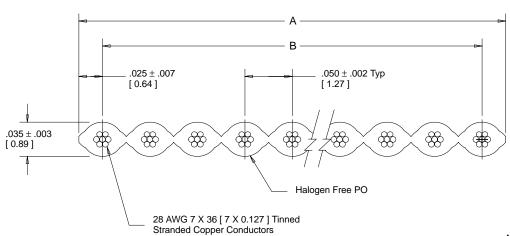
**Temperature Rating:**  $-40^{\circ}$  C to  $+105^{\circ}$  C

**Flammability Rating:** UL: Horizontal IEC 332-1, -2, & -3

UL File No.: E42769, Style No.: 20930

Number of Conductors	3M Part Number	Dimension A	Dimension B
09	2010/09	.450 ± .010 [ 11.43 ]	.400 ± .007 [ 10.16 ]
10	2010/10	.500 ± .010 [ 12.70 ]	.450 ± .007 [ 11.43 ]
14	2010/14	.700 ± .010 [ 17.78 ]	.650 ± .007 [ 16.51 ]
15	2010/15	.750 ± .010 [ 19.05 ]	.700 ± .007 [ 17.78 ]
16	2010/16	.800 ± .015 [ 20.32 ]	.750 ± .011 [ 19.05 ]
18	2010/18	.900 ± .015 [ 22.88 ]	.850 ± .011 [ 21.59 ]
20	2010/20	1.000 ± .015 [ 25.40 ]	0.950 ± .011 [ 24.13 ]
24	2010/24	1.200 ± .015 [ 30.48 ]	1.150 ± .011 [ 29.21 ]
25	2010/25	1.250 ± .015 [ 31.75 ]	1.200 ± .011 [ 30.48 ]
26	2010/26	1.300 ± .015 [ 33.02 ]	1.250 ± .011 [ 31.75 ]
30	2010/30	1.500 ± .020 [ 38.10 ]	1.450 ± .015 [ 36.83 ]
34	2010/34	1.700 ± .020 [ 43.18 ]	1.650 ± .015 [ 41.91 ]
36	2010/36	1.800 ± .020 [ 45.72 ]	1.750 ± .015 [ 44.45 ]
37	2010/37	1.850 ± .020 [ 46.99 ]	1.800 ± .015 [ 45.72 ]
40	2010/40	2.000 ± .020 [ 50.80 ]	1.950 ± .015 [ 49.53 ]
50	2010/50	2.500 ± .020 [ 63.50 ]	2.450 ± .015 [ 62.23 ]
60	2010/60	3.000 ± .020 [ 76.20 ]	2.950 ± .015 [ 74.93 ]
64	2010/64	3.200 ± .020 [ 81.28 ]	3.150 ± .015 [ 80.01 ]





Inch [mm]

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

[ ] Dimensions for Reference only

#### Note

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

### **Ordering Information**

2010/XX

Number of Conductors (See Table)

Note:

2. Available in standard lengths of 100 feet or 300 feet per roll, please specify when ordering.

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