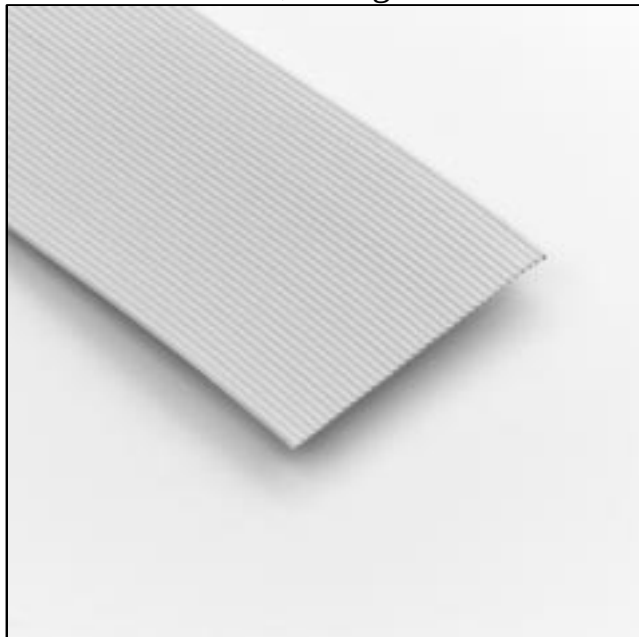


.050" Round Conductor Flat Cable

28 AWG Stranded, Halogen Free Insulation

2010 Series



- 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 ($\text{pH} \approx 6.0$) 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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Sheet 1 of 2

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Physical

Insulation

Material: Halogen Free Polyolefin (PO)
Color: off-white

Marking

Standard: None

Conductors: 28 AWG 7×36 [7×0.127] Tinned Stranded Copper

Electrical

Voltage Rating:	USA: 30V	EU: <50V
Insulation Resistance:	$>1 \times 10^{10} \Omega / 10 \text{ ft [3 m]}$	
	Unbalanced	Balanced
Characteristic Impedance:	107 Ω	176 Ω
Capacitance:	14.0 pF/ft (45.93 pF/m)	8.2 pF/ft (26.95 pF/m)
Inductance:	.16 $\mu\text{H/ft}$ (0.53 $\mu\text{H/m}$)	.25 $\mu\text{H/ft}$ (0.84 $\mu\text{H/m}$)
Propagation Delay:	1.50 ns/ft (4.92 ns/m)	1.45 ns/ft (4.76 ns/m)
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°C to $+105^\circ \text{C}$
Flammability Rating: UL: Horizontal IEC 332-1, -2, & -3

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

3M Interconnect Solutions Division

6801 River Place Blvd.
Austin, TX 78726-9000

For technical, sales or ordering information call
800-225-5373

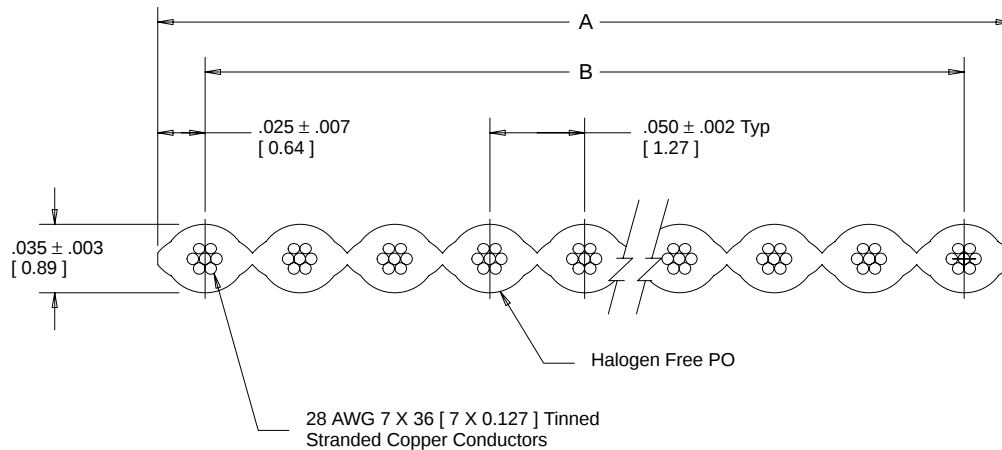
.050" Round Conductor Flat Cable

28 AWG Stranded, Halogen Free Insulation

2010 Series



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:

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

Ordering Information

2010/XX

Number of Conductors
(See Table)

Note:

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

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Sheet 2 of 2

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