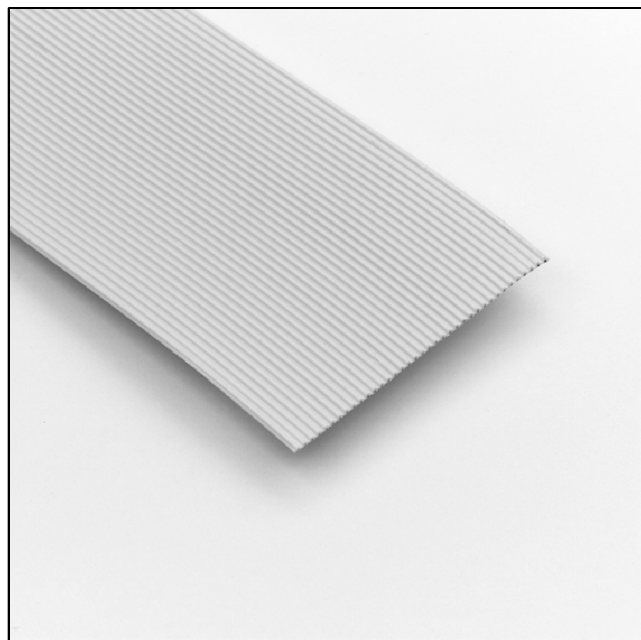


3M™ Round Conductor Flat Cable

.050" 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 (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
- RoHS* compliant

Date Modified: March 30, 2005

TS072212
Sheet 1 of 2

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°C

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

*RoHS=Directive 2002/95/EC,
Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

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

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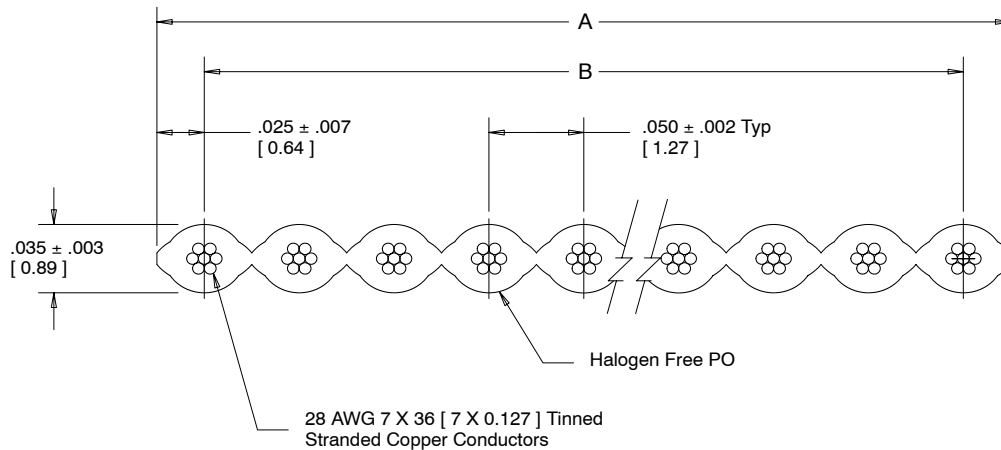
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2010 Series



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.

TS0722[12]
Sheet 2 of 2

Important Notice

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