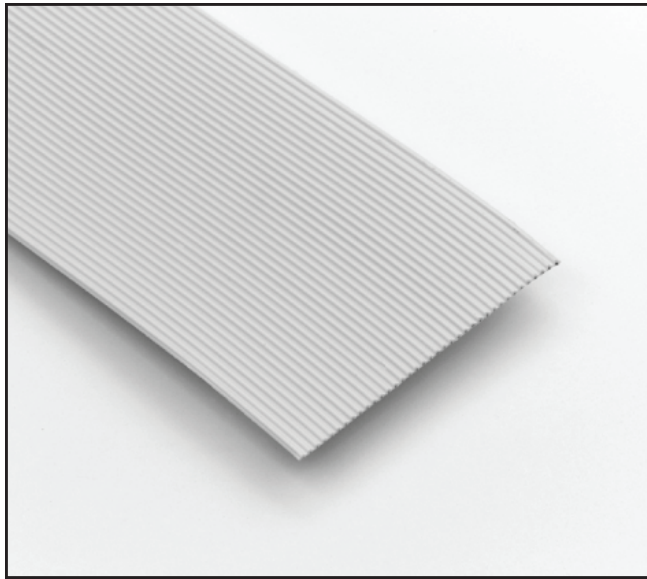


3M™ Round Conductor Flat Cable

.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 approximately 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
- See Regulatory Information Appendix (RIA) for chemical compliance information (RIA E1 & C1 apply)

Date Modified: September 9, 2010

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Sheet 1 of 2

Physical

Insulation:

Material: Halogen-Free Polyolefin (PO)

Color: off-white

Marking:

Standard: None

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

Electrical

Voltage Rating: USA: 30V EU: <50V

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

Characteristic Impedance:	Unbalanced	Balanced
	107 Ω	176 Ω

Capacitance: 14.0 pF/ft [45.93 pF/m] 8.2 pF/ft [26.95 pF/m]

Inductance: 0.16 $\mu\text{H/ft}$ [0.53 $\mu\text{H/m}$] 0.26 $\mu\text{H/ft}$ [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: -20°C to +105°C

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

UL File No.: E42769, Style No: 20930

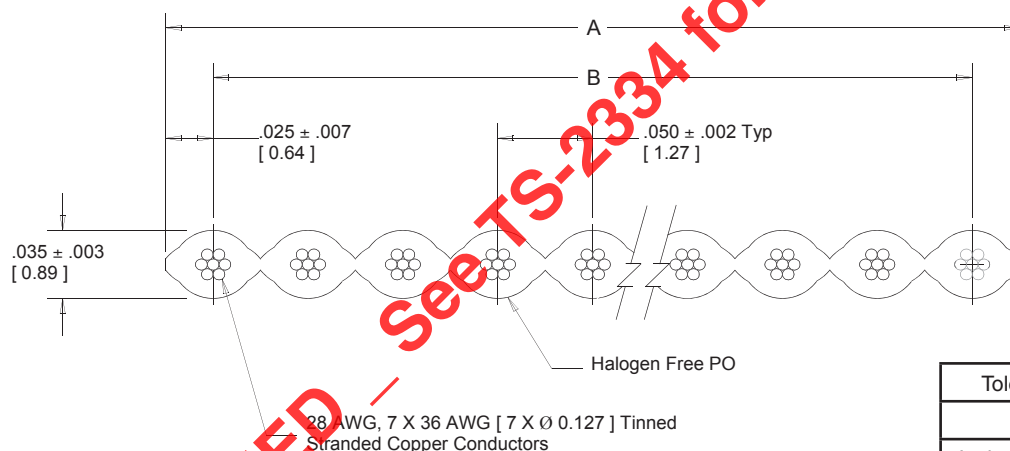
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Number of Conductors	3M Part Number	Dimension A	Dimension B
09	2010/09	.450 ± .010 [11.43]	.400 ± .007 [10.16]
10	2010/10	.500 ± .010 [12.70]	.450 ± .007 [11.43]
14	2010/14	.700 ± .010 [17.78]	.650 ± .007 [16.51]
15	2010/15	.750 ± .010 [19.05]	.700 ± .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]



Note:

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

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

[] Dimensions for Reference Only

Ordering Information

2010/XX XX

Number of Conductors
(See Table)

Blank = Standard
SF = Splice Free

Note:

Available in standard 100 ft and 300 ft rolls, please specify when ordering. Contact 3M for availability of additional conductor counts and/or custom roll lengths.

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Sheet 2 of 2



Interconnect Solutions

<http://www.3M.com/interconnects/>

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