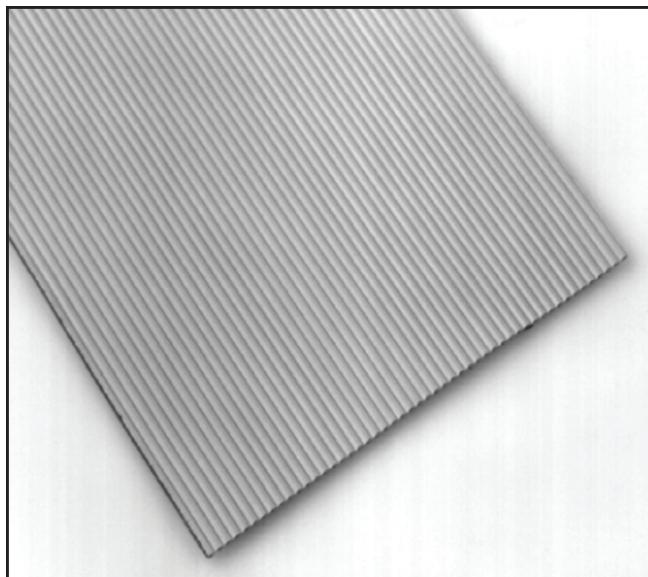


3M™ Round Conductor Flat Cable

.050" 28 AWG Solid, PVC

3709 Series



- 28 AWG solid wire
- .050 inch centers permit mass termination to a broad line of IDC connectors
- Zippable for branching or discrete termination
- See Regulatory Information Appendix (RIA) for chemical compliance information (RIA E1 & C1 apply)

Date Modified: February 24, 2012

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Sheet 1 of 2

Physical

Insulation:

Material: Polyvinyl Chloride (PVC)

Color: Gray

Marking:

Standard: None

Canadian Option: AWM 2651 105C 300V VW1 3M NU C AWM IA 105C 300V FT1 EU <50V

Conductors: 28 AWG, [Ø 0.32] Tinned Solid Copper

Electrical

Voltage Rating: USA: 300V

Canada: 300V

EU: <50V

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

Characteristic Impedance: **Unbalanced**
114 Ω

Balanced
188 Ω

Capacitance: 12.8 pF/ft [42.0 pF/m]

7.4 pF/ft [24.3 pF/m]

Inductance: 0.17 $\mu\text{H}/\text{ft}$ [0.54 $\mu\text{H}/\text{m}$]

0.26 $\mu\text{H}/\text{ft}$ [0.87 $\mu\text{H}/\text{m}$]

Propagation Delay: 1.45 ns/ft [4.76 ns/m]

1.40 ns/ft [4.59 ns/m]

Velocity of Propagation: 70%

73%

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: USA: VW-1

Canada: FT1

UL File No.: E42769, Style No: 2651

3M

Interconnect Solutions

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

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For technical, sales or ordering information call

800-225-5373

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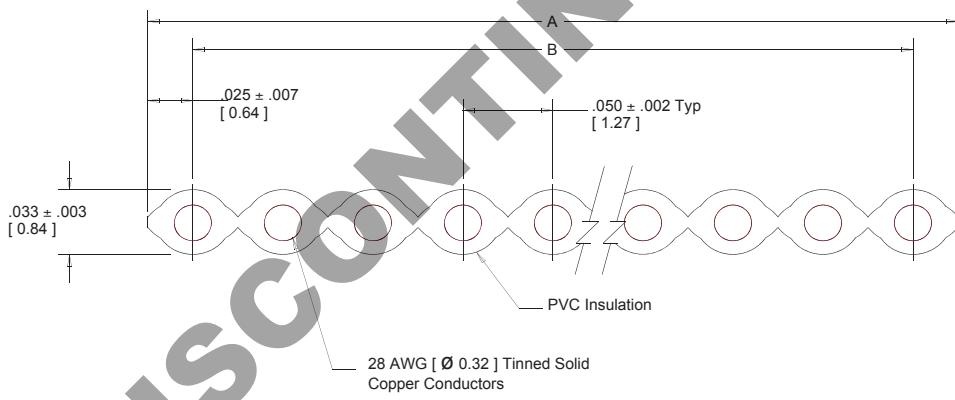


Inch
[mm]

Tolerance Unless Noted			
	.0	.00	.000
Inch	$\pm .1$	$\pm .01$	$\pm .005$

[] Dimensions for Reference Only

Number of Conductors	3M Part Number	Dimension A	Dimension B
09	3709/09	$0.450 \pm .010$ [11.43]	$0.400 \pm .007$ [10.18]
10	3709/10	$0.500 \pm .010$ [12.70]	$0.450 \pm .007$ [11.43]
14	3709/14	$0.700 \pm .010$ [17.78]	$0.650 \pm .007$ [16.51]
15	3709/15	$0.750 \pm .010$ [19.05]	$0.700 \pm .007$ [17.78]
16	3709/16	$0.800 \pm .015$ [20.32]	$0.750 \pm .011$ [19.05]
18	3709/18	$0.900 \pm .015$ [22.86]	$0.850 \pm .011$ [21.59]
20	3709/20	$1.000 \pm .015$ [25.40]	$0.950 \pm .011$ [24.13]
24	3709/24	$1.200 \pm .015$ [30.48]	$1.150 \pm .011$ [29.21]
25	3709/25	$1.250 \pm .015$ [31.75]	$1.200 \pm .011$ [30.48]
26	3709/26	$1.300 \pm .015$ [33.02]	$1.250 \pm .011$ [31.75]
30	3709/30	$1.500 \pm .020$ [38.10]	$1.450 \pm .015$ [36.83]
34	3709/34	$1.700 \pm .020$ [43.18]	$1.650 \pm .015$ [41.91]
36	3709/36	$1.800 \pm .020$ [45.72]	$1.750 \pm .015$ [44.45]
37	3709/37	$1.850 \pm .020$ [46.99]	$1.800 \pm .015$ [45.72]
40	3709/40	$2.000 \pm .020$ [50.80]	$1.950 \pm .015$ [49.53]
50	3709/50	$2.500 \pm .020$ [63.50]	$2.450 \pm .015$ [62.23]
60	3709/60	$3.000 \pm .020$ [76.20]	$2.950 \pm .015$ [74.93]
64	3709/64	$3.200 \pm .020$ [81.28]	$3.150 \pm .015$ [80.01]



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

Ordering Information

3709 / XX XX

Blank = Standard

C = Canadian Certified Version

Blank = Standard

SF = Splice Free

Number of Conductors
(See Table)

Note: Available in standard 100 ft or 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

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