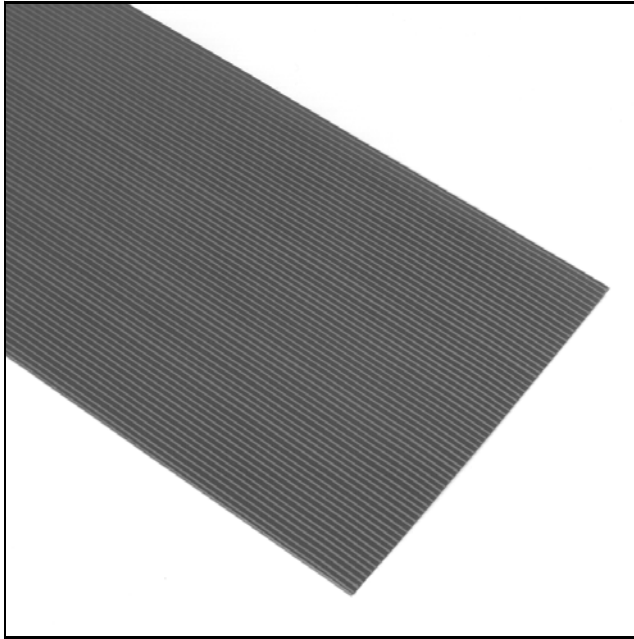


3M™ High Flex Life Cable

.050" 28 AWG Stranded, PVC

3319 Series



- Flex life of 100 million cycles at 1 3/4 inch diameter
- 19 strands of high strength copper alloy provide the longest flex life available for dynamic applications
- 28 AWG wire on .050 inch wire spacing permits mass termination to a broad line of IDC connectors
- Zippable for branching or discrete termination
- RoHS* Compliant

Date Modified: January 17, 2005

TS-0059-13
Sheet 1 of 2

Physical


Insulation


Material: Polyvinyl Chloride (PVC)

Color: Black

Marking:

Standard: None

Canadian Option:  AWM 2651 105C 300V VW1 3M NU

 AWM IA 105C 300V FT1

EU <50V

Conductors: 28 AWG 19 x 40 [19 x 0.079] Silver Plated Stranded Copper Alloy (89% Conductivity)

Electrical

Voltage Rating: USA: 300V

Canada: 300V

EU: <50V

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

Unbalanced

Balanced

Characteristic Impedance: 103 Ω

171 Ω

Capacitance: 13.6 pF/ft (44.62 pF/m)

7.9 pF/ft (25.91 pF/m)

Inductance: 15 $\mu\text{H}/\text{ft}$ (0.49 $\mu\text{H}/\text{m}$)

.23 $\mu\text{H}/\text{ft}$ (0.71 $\mu\text{H}/\text{m}$)

Propagation Delay: 1.40 ns/ft (4.59 ns/m)

1.35 ns/ft (4.43 ns/m)

Velocity of Propagation: 73%

75%

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

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

3M

Interconnect Solutions

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

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For technical, sales or ordering information call

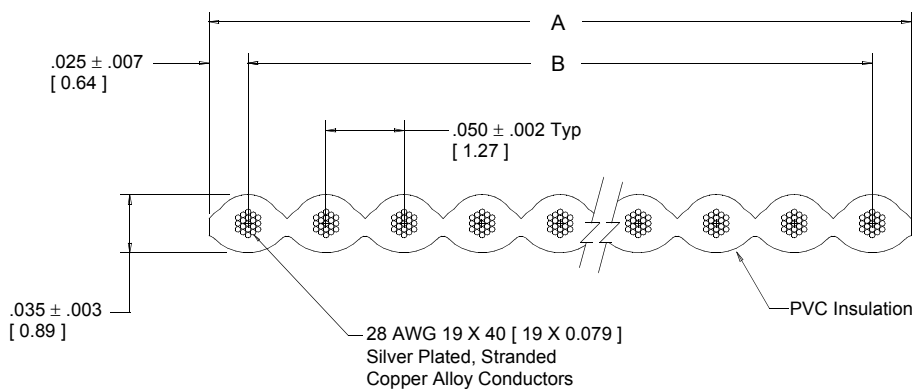
800-225-5373

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Number of Conductors	3M Part Number	Dimension A	Dimension B
09	3319/09	0.450 ± .010 [11.43]	0.400 ± .007 [10.18]
10	3319/10	0.500 ± .010 [12.70]	0.450 ± .007 [11.43]
14	3319/14	0.700 ± .010 [17.78]	0.650 ± .007 [16.51]
15	3319/15	0.750 ± .010 [19.05]	0.700 ± .007 [17.78]
16	3319/16	0.800 ± .015 [20.32]	0.750 ± .011 [19.05]
20	3319/20	1.000 ± .015 [25.40]	0.950 ± .011 [24.13]
24	3319/24	1.200 ± .015 [30.48]	1.150 ± .011 [29.21]
25	3319/25	1.250 ± .015 [31.75]	1.200 ± .011 [30.48]
26	3319/26	1.300 ± .015 [33.02]	1.250 ± .011 [31.75]
30	3319/30	1.500 ± .020 [38.10]	1.450 ± .015 [36.83]
34	3319/34	1.700 ± .020 [43.18]	1.650 ± .015 [41.91]
36	3319/36	1.800 ± .020 [45.72]	1.750 ± .015 [44.45]
37	3319/37	1.850 ± .020 [46.99]	1.800 ± .015 [45.72]
40	3319/40	2.000 ± .020 [50.80]	1.950 ± .015 [49.53]
50	3319/50	2.500 ± .020 [63.50]	2.450 ± .015 [62.23]
60	3319/60	3.000 ± .020 [76.20]	2.950 ± .015 [74.93]
64	3319/64	3.200 ± .020 [81.28]	3.150 ± .015 [80.01]



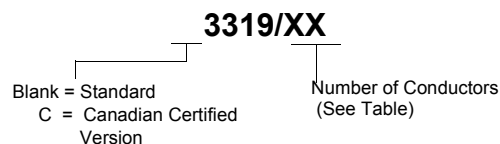
Inch
[mm]

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

[] Dimensions for Reference Only

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

Ordering Information



Note: Standard lengths of 100 foot and 300 foot rolls are available. Please specify when ordering.

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Sheet 2 of 2

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