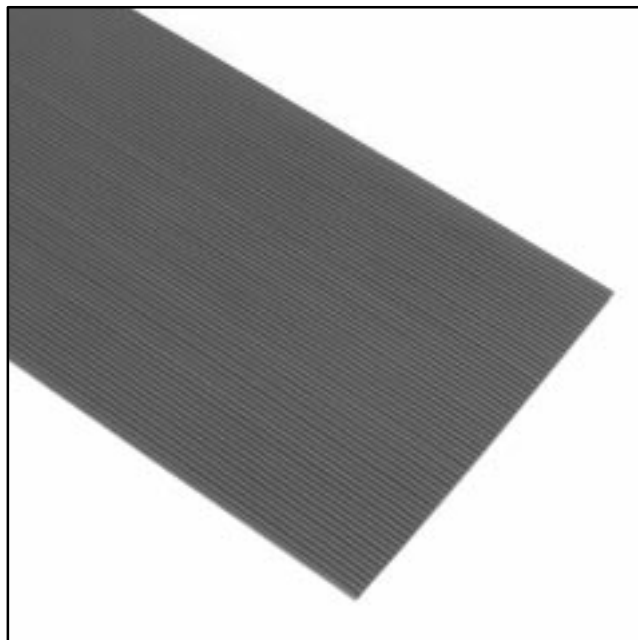# .050″ High Flex Life Cable

28 AWG Stranded, PVC

3319 Series

- Flex life of 100 million cycles at 1 3/4 inch diameter — for further flex cycle information, *see page 648*
- 19 strands of high strength copper alloy provide the longest flex life available for dynamic applications
- 28 AWG wire on .050 inch centers permits mass termination to a broad line of IDC connectors
- Zippable for branching or discrete termination

Date Issued: February 19, 1999

Physical

Insulation
Material: Polyvinyl Chloride (PVC)
Color: Black

Marking
Standard: None
Canadian Option: ⓊL AWM 2651 105C 300V VW1   3M NU   ᶜⓊL AWM IA 105C 300V FT1 EU <50V

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

Electrical

Voltage Rating: USA: 300V   Canada: 300V   EU: <50V
Insulation Resistance: $> 1 \times 10^{10}$ Ω/10 ft. [3m]
Characteristic Impedance Unbalanced: 107 Ω
Capacitance Unbalanced: 13.3 pF/ft. [43.6 pF/m]
Inductance Unbalanced: .15 μH/ft. [0.49 μH/m]
Propagation Delay Unbalanced: 1.42 ns/ft. [4.66 ns/m]
Velocity of Propagation Unbalanced: 72%

Note: Unbalanced is measured between ground-signal-ground conductors.

Environmental

Temperature Rating: –20°C to +105°C
Flammability Rating: USA: VW-1   Canada: FT1

UL File No.: E42769, Style No.: 2651

3M Electronic Products Division
6801 River Place Blvd.
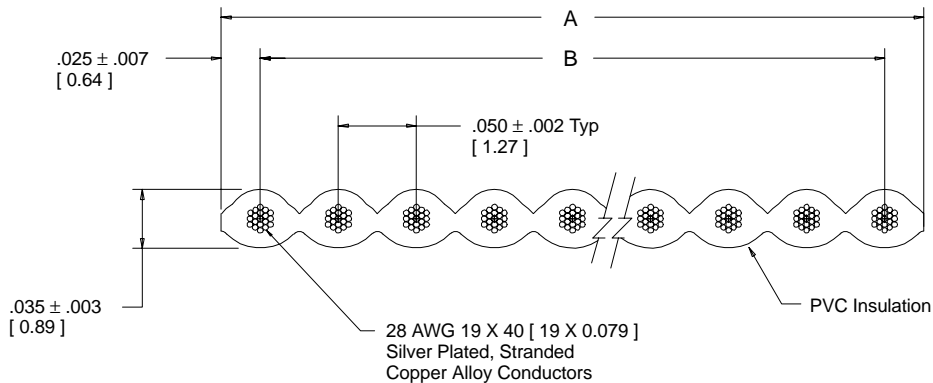Austin, TX 78726-9000

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

.050″ High Flex Life Cable
28 AWG Stranded, PVC

3319 Series

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]

ts59

® ℞ ℞ c ℞ ℞
(OPTIONAL)

A

B

.025 ± .007 [0.64]

.050 ± .002 Typ [1.27]

.035 ± .003 [0.89]

28 AWG 19 X 40 [19 X 0.079] Silver Plated, Stranded Copper Alloy Conductors

PVC Insulation

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

3319/XX

Blank = Standard
C = Canadian Certified Version

Number of Conductors
(See Table)
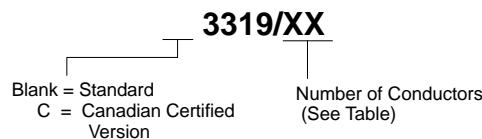
Note: Standard length is 100 ft/roll.

TS-0059-09
Sheet 2 of 2

3M Electronic Products Division

6801 River Place Blvd.
Austin, TX 78726-9000

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