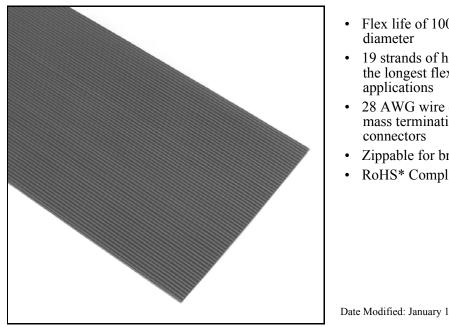
# 3M<sup>™</sup> High Flex Life Cable

## .050" 28 AWG Stranded, PVC



- Flex life of 100 million cycles at 1 3/4 inch
- 19 strands of high strength copper alloy provide the longest flex life available for dynamic
- 28 AWG wire on .050 inch wire spacing permits mass termination to a broad line of IDC
- 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:	FLAWM 2651 105C 300V VW1 3M NU CFLAWM IA 105C 300V FT1 EU <50V
<b>Conductors:</b>	28 AWG 19 $\times$ 40 [ 19 $\times$ 0.079 ] Silver Plated Stranded Copper Alloy (89% Conductivity)

## **Electrical**

Voltage Rating:	USA: 300V	Canada: 300V	EU: <50V
Insulation Resistance:	$>1 x 10^{10} \Omega / 10 $ 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 $\mu H/ft$ (0.49 $\mu H/m)$	.23 $\mu$ H/ft ( <sub>0</sub> .ý $f \mu$ H/m)	
<b>Propagation Delay:</b>	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

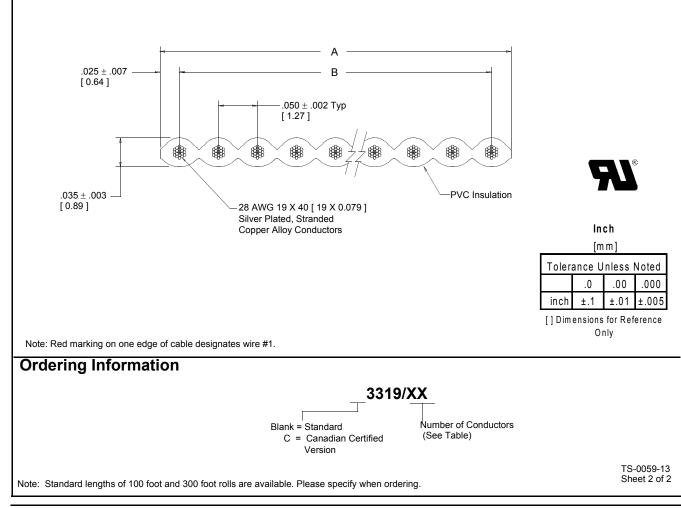
Canada: FT1

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

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

# 3M<sup>™</sup> High Flex Life Cable .050″ 28 AWG Stranded, PVC

3M Part **Dimension** A Dimension B Number of Conductors Number 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 ]  $0.700 \pm .007$  [ 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 1.300 ± .015 [ 33.02 ] 1.250 ± .011 [ 31.75 ] 3319/26 30 3319/30  $1.500 \pm .020$  [ 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 ]



3319 Series

3M Interconnect Solutions http://www.3M.com/interconnects/

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