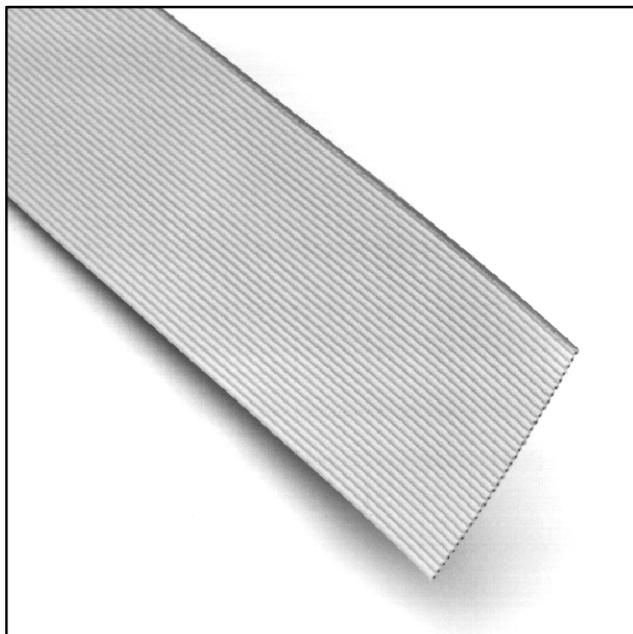


# 3M™ Medium Flex Life Cable

.050" 28 AWG Stranded, PVC

3539 Series



- Flex life of 10 million cycles at 1 3/4 inch diameter
- 19 strands of tinned copper provide extended flex life 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
- \*RoHS compliant

Date Modified: May 24, 2004

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## Physical

### Insulation

Material: Polyvinyl Chloride (PVC)

Color: Gray

### 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 ] Tinned Stranded Copper

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## Electrical

**Voltage Rating:** USA: 300V      Canada: 300V      EU: <50V

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

**Characteristic Impedance:** Unbalanced: 106  $\Omega$

**Capacitance:** Unbalanced: 13.3 pF/ft. [ 43.8 pF/m ]

**Inductance:** Unbalanced: .15  $\mu\text{H/ft. [ 0.49 } \mu\text{H/m ]}$

**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.

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## 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**  
**Interconnect Solutions**  
<http://www.3M.com/interconnects/>

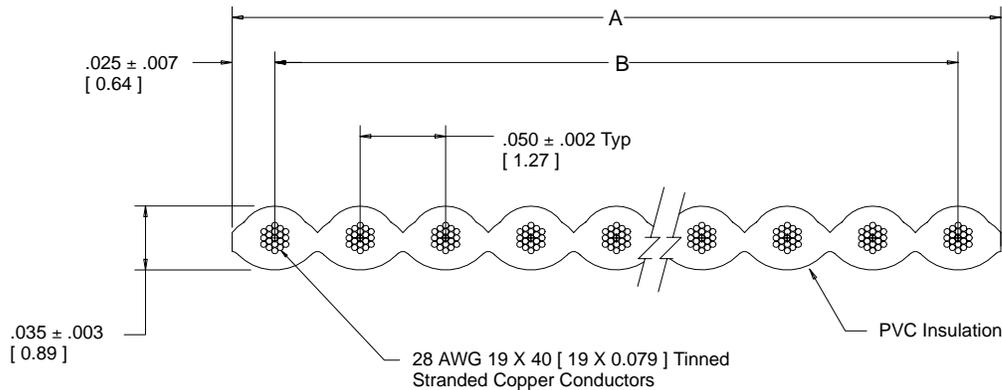
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**800-225-5373**

# 3M™ Medium Flex Life Cable

.050" 28 AWG Stranded, PVC

3539 Series

Number of Conductors	3M Part Number	Dimension A	Dimension B
09	<b>3539/09</b>	0.450 ± .010 [ 11.43 ]	0.400 ± .007 [ 10.16 ]
10	<b>3539/10</b>	0.500 ± .010 [ 12.70 ]	0.450 ± .007 [ 11.43 ]
14	<b>3539/14</b>	0.700 ± .010 [ 17.78 ]	0.650 ± .007 [ 16.51 ]
15	<b>3539/15</b>	0.750 ± .010 [ 19.05 ]	0.700 ± .007 [ 17.78 ]
16	<b>3539/16</b>	0.800 ± .015 [ 20.32 ]	0.750 ± .011 [ 19.05 ]
20	<b>3539/20</b>	1.000 ± .015 [ 25.40 ]	0.950 ± .011 [ 24.13 ]
24	<b>3539/24</b>	1.200 ± .015 [ 30.48 ]	1.150 ± .011 [ 29.21 ]
25	<b>3539/25</b>	1.250 ± .015 [ 31.75 ]	1.200 ± .011 [ 30.48 ]
26	<b>3539/26</b>	1.300 ± .015 [ 33.02 ]	1.250 ± .011 [ 31.75 ]
30	<b>3539/30</b>	1.500 ± .020 [ 38.10 ]	1.450 ± .015 [ 36.83 ]
34	<b>3539/34</b>	1.700 ± .020 [ 43.18 ]	1.650 ± .015 [ 41.91 ]
36	<b>3539/36</b>	1.800 ± .020 [ 45.72 ]	1.750 ± .015 [ 44.45 ]
37	<b>3539/37</b>	1.850 ± .020 [ 46.99 ]	1.800 ± .015 [ 45.72 ]
40	<b>3539/40</b>	2.000 ± .020 [ 50.80 ]	1.950 ± .015 [ 49.53 ]
50	<b>3539/50</b>	2.500 ± .020 [ 63.50 ]	2.450 ± .015 [ 62.23 ]
60	<b>3539/60</b>	3.000 ± .020 [ 76.20 ]	2.950 ± .015 [ 74.93 ]
64	<b>3539/64</b>	3.200 ± .020 [ 81.28 ]	3.150 ± .015 [ 80.01 ]



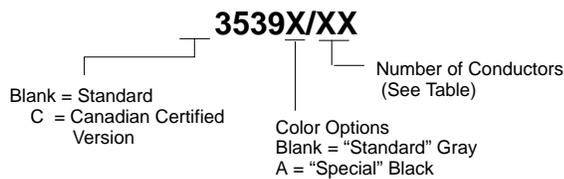
Inch  
[mm]

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

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

[ ] Dimensions for Reference only

## Ordering Information



Note: Available in standard lengths of 100 feet or 300 feet per roll, please specify when ordering.

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## **Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.



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