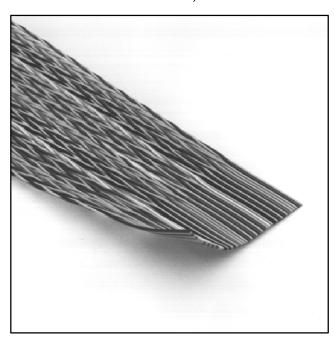
3M™ Twisted Pair Flat Cable

.050" 28 AWG Stranded, Mass Terminatable, PVC

1700 Series



- Wires are color-coded for easy identification
- Twist and flat repeat has variable length option
- Can be mass terminated to a broad line of IDC connectors
- Provides reduced crosstalk in balanced drive applications
- 28 AWG stranded wire provides flexibility and extended product life
- 10 color repeat

Date Modified: May 30, 2003

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Physical

Insulation

Material: Polyvinyl Chloride (PVC)

Color: 10 Color Repeat with Tan Common

Marking: None

Canadian Option: AWM 20462 105C 300V VW1 3M NU CAN AWM IA 80C 150V FT1

EU < 50V

Conductors: 28 AWG 7×36 [7×0.127] Tinned Stranded Copper

Electrical

Voltage Rating: USA: 300V Canada: 150V EU: <50V

Insulation Resistance: >1 x $10^9 \Omega / 10$ ft [3m]

Unbalanced Balanced

Characteristic Impedance: 101 Ω 122 Ω

Velocity of Progation: 63% 62%

Note: Unbalanced is measured between ground-signal-ground conductors. Balanced is measured between conductors within a pair.

Environmental

Temperature Rating: USA: -20° C to +105° C Canada: -20° C to +80° C

Flammability Rating: USA: VW-1 Canada: FT1

UL File No.: E42769, Style No.: 20462

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

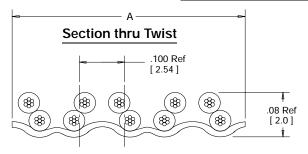
3M is a trademark of 3M Company.

For technical, sales or ordering information call

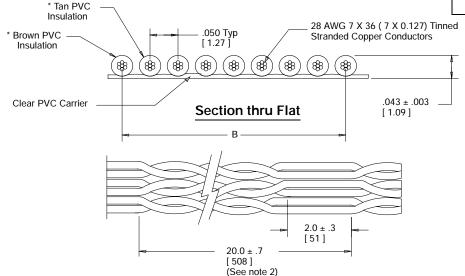
800-225-5373



Number of Conductors	3M Part Number	Dimension A	Dimension B
10 (5 pair)	1700/10	0.50 [12.7]	0.450 ± .010 [11.43]
14 (7 pair)	1700/14	0.70 [17.8]	0.650 ± .010 [16.51]
16 (8 pair)	1700/16	0.80 [20.3]	0.750 ± .015 [19.05]
20 (10 pair)	1700/20	1.00 [25.4]	0.950 ± .015 [24.13]
26 (13 pair)	1700/26	1.30 [33.0]	1.250 ± .015 [31.75]
34 (17 pair)	1700/34	1.70 [43.2]	1.650 ± .020 [41.91]
36 (18 pair)	1700/36	1.80 [45.7]	1.750 ± .020 [44.45]
40 (20 pair)	1700/40	2.00 [50.8]	1.950 ± .020 [49.53]
50 (25 pair)	1700/50	2.50 [63.5]	2.450 ± .020 [62.23]
60 (30 pair)	1700/60	3.00 [76.2]	2.950 ± .020 [74.93]
64 (32 pair)	1700/64	3.20 [81.3]	3.150 ± .020 [80.01]



Varia	Variable Length Suffix Table Example of alternate twist and flat repeats					
Example of						
Suffix	Repeat	Flat				
то	22.00	4.00				
TB	7.50	1.00				
TD	43.00	3.00				
BP	9.00	1.50				
EA	10.50	2.00				
BW	34.00	2.00				



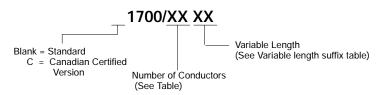
* 10 Color Repeat Brown/Tan Red/Tan Orange/Tan Yellow/Tan Green/Tan Blue/Tan Violet/Tan Gray/Tan White/Tan Black/Tan

Inch [mm]

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

[] Dimensions for Reference only

Ordering Information



Notes

- 1. Available in standard lengths of 100 feet or 300 feet per roll, please specify when ordering.
- 2. Standard product has a twist-flat repeat length of 20 inches (50.8 cm), with a 2-inch (5.1 cm) flat portion. The twist-flat repeat can be specified from 8-1/2 inches (16.5 cm) to 48 inches (1.219 m), and the flat can be specified as anything over 1 inch (2.5 cm).
- 3. For special requirements, contact your 3M representative.

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3M

Electronic and Interconnect Solutions Division

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