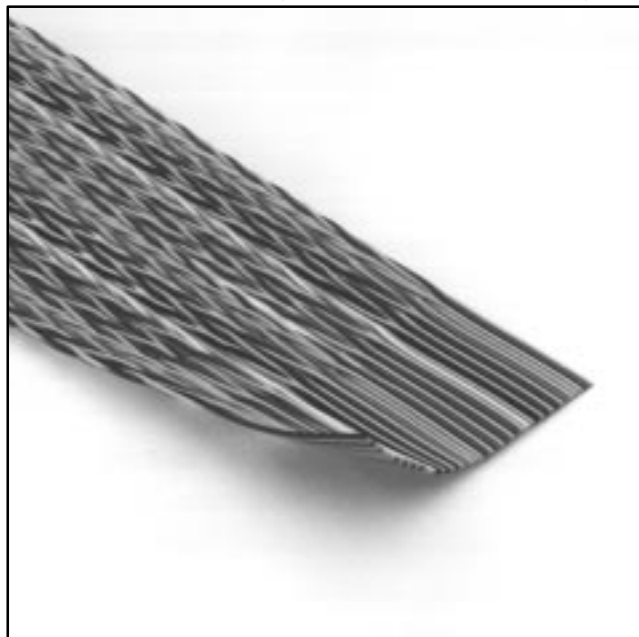


.050" Twisted Pair Flat Cable

28 AWG Stranded, Mass Terminatable, PVC

1700 Series



- Can be mass terminated to 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 Issued: February 19, 1999

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Physical

Insulation

Material: Polyvinyl Chloride (PVC)
Color: 10 Color Repeat with Tan Common

Marking

Standard: None

Canadian Option:  AWM 20462 105C 300V VW1 3M NU  AWM IA 80C 150V FT1
EU <50V

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

Electrical

Voltage Rating:	USA: 300V	Canada: 150V	EU: <50V
Insulation Resistance:	>1 x 10 ⁹ Ω /10ft [3m]		
	Unbalanced	Balanced	
Characteristic Impedance:	101 Ω	122 Ω	
Capacitance:	15.9 pF/ft (52.2 pF/m)	13.3 pF/ft (43.6 pF/m)	
Inductance:	.16 μH/ft (0.52 μH/m)	.20 μH/ft (0.66 μH/m)	
Propagation Delay:	1.61 ns/ft (5.28 ns/m)	1.63 ns/ft (5.35 ns/m)	
Velocity of Propagation:	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

3M Electronic Products Division

6801 River Place Blvd.
Austin, TX 78726-9000

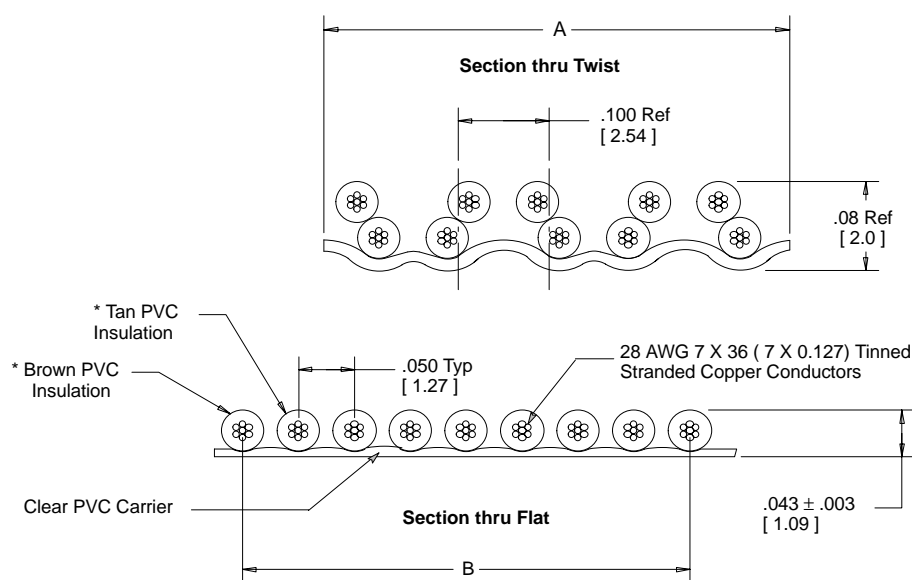
For technical, sales or ordering information call
800-225-5373

.050" Twisted Pair Flat Cable

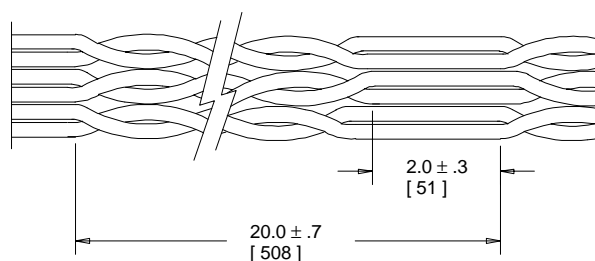
28 AWG Stranded, Mass Terminatable, PVC

1700 Series

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]



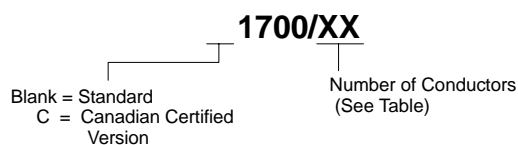
- * 10 Color Repeat
- Brown/Tan
- Red/Tan
- Orange/Tan
- Yellow/Tan
- Green/Tan
- Blue/Tan
- Violet/Tan
- Gray/Tan
- White/Tan
- Black/Tan



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

[] Dimensions for Reference only

Ordering Information



Notes:

- Available in standard lengths of 100 feet or 300 feet per roll, please specify when ordering.
- Standard product has a twist-flat repeat length of 20 inches (50.8 cm), with a 2-inch (5.1 cm) flat portion. For special requirements, please contact your 3M sales representative. 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).

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Sheet 2 of 2

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