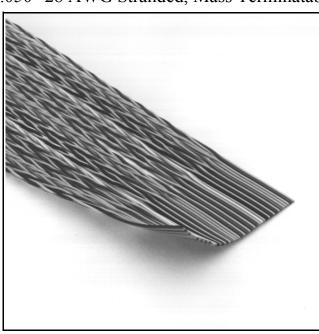
3M[™] Twisted Pair Flat Cable

.050" 28 AWG Stranded, Mass Terminatable Pair, 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
- RoHS* compliant

TS-0115-17
Date Modified: April 13, 2007
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Physical

Insulation Material: Polyvinyl Chloride (PVC)

Color: 10 Color Repeat with Tan Common

Marking: None

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

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

Electrical

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

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

UnbalancedBalancedCharacteristic Impedance: 101 Ω122 Ω

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

*"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. This information represents 3M's knowledge and belief which may be based in whole or in part on information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

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

.050" 28 AWG Stranded, Mas		able Pair, PV	C		1700) Series	
	Number of Conductors	3M Part Number	Dimension A	\	Dimension	В	
	10 (5 pair)	1700/10	0.50 [12.7]	0.4	450 ± .010 [1	11.43]	
14 (7 pai 16 (8 pai 20 (10 pai		1700/14	0.70 [17.8]		$0.650 \pm .010$ [16.51]		
		1700/16	0.80 [20.3]		0.750 ± .015 [19.05]		
		1700/20	1.00 [25.4]		0.950 ± .015 [24.13]		
	26 (13 pair)	1700/26	1.30 [33.0]		$250 \pm .015$ [3		
	34 (17 pair)	1700/34	1.70 [43.2]		1.650 ± .020 [41.91]		
c 74	36 (18 pair)	1700/36	1.80 [45.7]		1.750 ± .020 [44.45]		
(OPTIONAL)	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]		$950 \pm .020$ [3		
	64 (32 pair)	1700/64	3.20 [81.3]		150 ± .020 [8		
		or availability of addition					
A	1>				Flat-Repeat	Length	
Section thru Twis	<u>st</u>				uffix Table Twist and Fla	t Repeats	
100	Dof		-	Suffix	Repeat (in.)	Flat (in.)	
[2.54				Blank (Standard)	20.0	2.0	
		<u></u>	-	TO	22.0	4.0	
(\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				TB	7.5	1.0	
(*) (*) (*)	3 (8)	[2.0]	-	TD BP	43.0 9.0	3.0 1.5	
				BA	10.5	2.0	
Insulation 28 AWG, 7 X 36 AWG (7 X Ø 0.127) Tinned * 10 Color Repeat * 10 Color Repeat							
(\$) (\$) (\$) (\$) (\$) (\$) (\$)				Brown/Tan Red/Tan Orange/Tan Yellow/Tan			
(8) (8) (8) (8) (8) (8) (8)							
Clear PVC Carrier		.043 :	± .003		Green/Tar Blue/Tan	1	
Section thru Flat [1.09]				Violet/Tan Gray/Tan			
				White/Tan			
					Black/Tan		
					Inch		
			[mm] Tolerance Unless Noted				
20+2				rolerance			
		2.0 ± .3 51]		Inch ±.		005	
	20.0 ± .7 ——— [508]	D			nensions for		
	(See note 1)			Кете	rence only		
Ordering Information	1700 / <u>></u>	<u>(X XX X00 XX</u>	<u>(</u>				
□ Blank = Standard							
Blank = Standard SF = Splice Free C = Canadian Certified Version Length of Roll in Feet							
			100 = 100 ft Standar	d			
		Blank = Sta	200 = 200 ft Standar andard	u			
Note:		Variable Fla	at-Repeat Length	Suffix Table)			
Note: (See Variable Flat-Repeat Length Suffix Table) 1. The twist-flat repeat can be specified from 8.5 inches (16.5 cm) to 48 inches (1.219 m), and the flat repeat can be specified as anything ever 1 inch (1.54 cm).							
and the flat can be specified as anything over 1 inch (2.54 cm). 2. Contact 3M for availability of custom roll lengths or other specia	Number of Condu (See Table)	ictors			TS-0115-17 Sheet 2 of 2		
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