3M United States

3M Worldwide : United States : Electronics Manufacturing

<u>Product Catalog for Electronic Specialty Markets</u> > <u>3M™ Cable & Assemblies</u> > <u>Internal Wiring</u> > Twisted Pair Flat Cable, Mass Terminatable, .050 in Pitch, 1700 Series >

3M[™] Twisted Pair, Flat Cable, .050" 28 AWG Stranded, 10 Color Repeat, 1700/34, 100 ft.

34 conductors, Mass Terminatable, PVC, Standard GTIN(UPC/EAN) : 0 00 54007 53978 0 3M Id : 80-6106-7251-3

Characteristics	
3M Logo, Position Indicator, Wire Gauge, Insulator Material	None
Balanced Capacitance	13.3 pF/ft (43.6 pF/m)
Balanced Inductance	.20 microHenry/ft (0.66 microHenry/m)
Balanced Propagation Delay	1.63 ns/ft (5.35 ns/m)
Cable Style	Flat
Canadian Option	AWM 20462 105C 300V VW1 3M NU C AWM IA 80C 150V FT1 EU<50V
Capacitance Balanced	13.3 Picofarad
Capacitance Unbalanced	15.9 Picofarad
Characteristic Impedance Balanced	122 Ohm
Characteristic Impedance Unbalanced	101 Ohm
Color	10 Color Repeat with Tan Common
Conductor Material	Copper
Conductor Resistance	65 Ohm
Conductors	28 AWG 7x36 [7x0.127] Tinned Stranded Copper
EPC Can View	Public
EU RoHS Compliant	Yes
First Position Marking	Brown
Flammability Rating Canada	FT1
Flammability Rating EU	None
Flammability RatingUSA	VW-1
Impedance Balanced	122 Ohm
Impedance Unbalanced	101 Ohm
Inductance Balanced	.20 Microhenry
Inductance Unbalanced	.16 Microhenry

Insulation Material Insulation Resistance Jacket Lower Temperature Rating **Number of Conductors** Pitch **Plating Material Primary Configuration Primary Insulation Color Primary Insulation Material Propagation Delay -- Balanced Propagation Delay -- Unbalanced** Shape Shield Stranding **Temperature Rating: Canada Temperature Rating: USA UL File Number UL Listed -- USA UL Recognized -- USA UL Recognized-- Canada Unbalanced Capacitance Unbalanced Inductance Unbalanced Propagation Delay Upper Temperature Rating -- Canada Upper Temperature Rating -- USA Velocity of Propagation--Balanced Velocity of Propagation--Unbalanced** Voltage Rating -- Canada Voltage Rating -- EU Voltage Rating--USA Wire Gauge

Polyvinyl Chloride (PVC) (Primary Cable) >1x10^10 Ohm/10ft. [3m] No -20 Degree Celsius 34 0.050 Inch Tin Twist & Flat Multi Polyvinyl Chloride (PVC) 1.63 Nanosecond 1.61 Nanosecond Flat No 7 X 36 [7 X 0.127] -20 Degree C to +80 Degree C -20 Degree C to +105C E42769 None AWM Style 20462 IA 15.9 pF/ft (52.2 pF/m) .16 microHenry/ft (0.52 microHenry/m) 1.61 ns/ft (5.28 ns/m) 80 Degree Celsius 105 Degree Celsius 62% 63% 150 Volt >0 to <50 Volt 300V 28 American Wire Gauge (AWG)

©3M 1995-2006

3M United States

3M Worldwide : United States : Electronics Manufacturing

Product Catalog for Electronic Specialty Markets > 3M[™] Cable & Assemblies > Internal Wiring > Twisted Pair Flat Cable, Mass Terminatable, .050 in Pitch, 1700 Series > 3M[™] Twisted Pair, Flat Cable, .050" 28 AWG Stranded, 10 Color Repeat, 1700/34, 100 ft.

3M[™] Twisted Pair, Flat Cable, .050" 28 AWG Stranded, 10 Color Repeat, 1700/34, 100 ft. Packaging

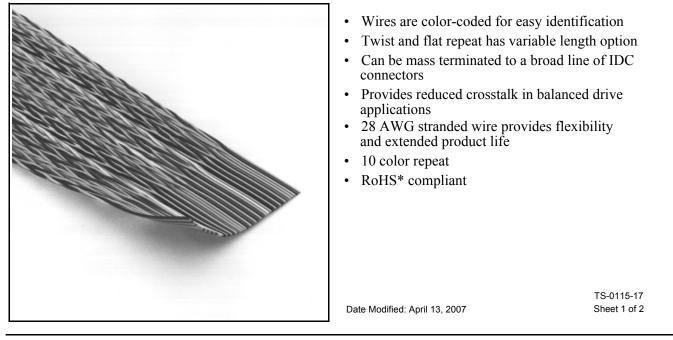
3M ld:	80-6106-7251-3
Minimum Order Quantity:	3.0 RLS
Case Quantity:	3.0 RLS

	English	Metric	
Length	12.2 INCH	0.310 MTR	
Width	12.2 INCH	0.310 MTR	
Height	8.8 INCH	0.224 MTR	
Gross Weight	17.6000 LBS	7.9832 KG	

©3M 1995-2006

3M[™] Twisted Pair Flat Cable .050" 28 AWG Stranded, Mass Terminatable Pair, PVC

1700 Series



Physical

Insulation Material:	Polyvinyl Chloride (PVC)
Color:	10 Color Repeat with Tan Common
Marking:	None
Canadian Option:	RY AWM 20462 105C 300V VW1 3M NU C RYAWM 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]		
	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:	0.16 µH/ft [0.53 µ	H/m]	$0.20~\mu\text{H/ft}$ [$0.66~\mu\text{H/m}$]
Propagation Delay:	1.61 ns/ft [5.28 ns/n	n]	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 Flammability Rating: USA: VW-1

Canada: -20° C to +80° C 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

3M[™] Twisted Pair Flat Cable

.050" 28 AWG Stranded, Mass Terminatable Pair, PVC

1700 Series

