# 3M<sup>™</sup> Twisted Pair Flat Cable

.050" 28 AWG Stranded, Mass Terminatable, PVC



- Combines the advantages of loose twisted pairs with flat section parts for mass termination
- Loose twisted pairs allow for easy routing
- Twisted pairs help reduce crosstalk for balanced drive applications
- Zippable for branching or discrete termination
- Wires are color-coded for easy identification
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnector.com for compliance information (RIA E1 & C1 apply)

	Date Modified: October 7, 2019	TS-0999-F Sheet 1 of 2
Physical		

Insulation Material: Polyvinyl Chloride (PVC) Color: 10 Color Repeat with White Common Marking: Standard: None Conductors: 28 AWG, 7 x 36 AWG [ 7 x ø 0.127 mm] Tinned Stranded Copper

### **Electrical**

Voltage Rating:	USA: 300V	EU: <50V
<b>Insulation Resistance:</b>	$> 1 \times 10^{10}\Omega/10$ ft. [ 3 m ]	
Characteristic Impedance:	<b>Unbalanced</b> 103 Ω	<b>Balanced</b> 137 Ω
Capacitance:	14.8 pF/ft [ 48.5 pF/m ]	11.1 pF/ft [ 36.3 pF/m ]
Inductance:	0.16 µH/ft [ 0.52 µH/m ]	$0.21~\mu\text{H/ft}$ [ $0.69~\mu\text{H/m}$ ]
<b>Propagation Delay:</b>	1.52 ns/ft [ 4.99 ns/m ]	1.52 ns/ft [ 4.99 ns/m ]
Velocity of Propagation:	67%	67%

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

### Environmental

**Temperature Rating:** USA: -20° C to +80° C **Flammability Rating:** USA:VW-1

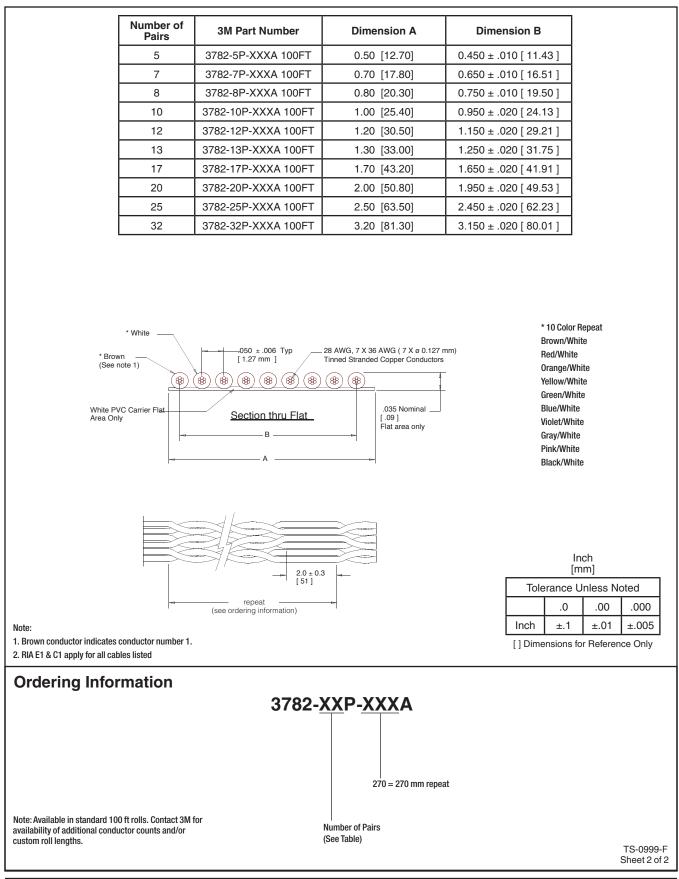
UL File No.: E42769, Style No.: 20488

3M Electronics Materials Solutions Division Interconnect Solutions http://www.3M.com/interconnect

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#### 3782 Series



#### ЗМ

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