3M[™] Twisted Pair Flat Cable

.050" 28 AWG Stranded, Mass Terminatable, PVC

3782 Series



- 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

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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

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

Characteristic Impedance: Unbalanced Balanced

 03Ω 137Ω

 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 μH/ft [0.69 μH/m]

Propagation Delay: 1.52 ns/ft [4.99 ns/m] 1.52 ns/ft [4.99 ns/m]

Velocity of Propagation: 67%

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

Environmental

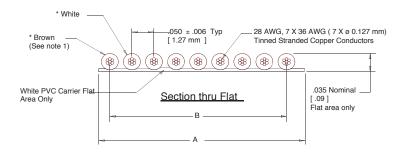
Temperature Rating: USA: -20° C to +80° C

Flammability Rating: USA:VW-1

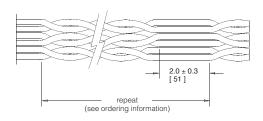
UL File No.: E42769, Style No.: 20488

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Number of Pairs	3M Part Number	Dimension A	Dimension B
5	3782-5P-XXXA 100FT	0.50 [12.70]	0.450 ± .010 [11.43]
7	3782-7P-XXXA 100FT	0.70 [17.80]	0.650 ± .010 [16.51]
8	3782-8P-XXXA 100FT	0.80 [20.30]	0.750 ± .010 [19.50]
10	3782-10P-XXXA 100FT	1.00 [25.40]	0.950 ± .020 [24.13]
12	3782-12P-XXXA 100FT	1.20 [30.50]	1.150 ± .020 [29.21]
13	3782-13P-XXXA 100FT	1.30 [33.00]	1.250 ± .020 [31.75]
17	3782-17P-XXXA 100FT	1.70 [43.20]	1.650 ± .020 [41.91]
20	3782-20P-XXXA 100FT	2.00 [50.80]	1.950 ± .020 [49.53]
25	3782-25P-XXXA 100FT	2.50 [63.50]	2.450 ± .020 [62.23]
32	3782-32P-XXXA 100FT	3.20 [81.30]	3.150 ± .020 [80.01]



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



Inch [mm]

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

[] Dimensions for Reference Only

1. Brown conductor indicates conductor number 1. 2. RIA E1 & C1 apply for all cables listed

Ordering Information 3782-XXP-XXXA 270 = 270 mm repeat Note: Available in standard 100 ft rolls. Contact 3M for availability of additional conductor counts and/or custom roll lengths. (See Table)

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3M

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

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