



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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 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: July 5, 2009

TS-0999-E
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 ϕ 0.127] Tinned Stranded Copper

Electrical

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

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

Characteristic Impedance:	Unbalanced	Balanced
	103 Ω	137 Ω

Capacitance:	14.8 pF/ft [48.5 pF/m]	11.1 pF/ft [36.3 pF/m]
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Inductance:	0.16 $\mu\text{H}/\text{ft}$ [0.52 $\mu\text{H}/\text{m}$]	0.21 $\mu\text{H}/\text{ft}$ [0.69 $\mu\text{H}/\text{m}$]
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Propagation Delay:	1.52 ns/ft [4.99 ns/m]	1.52 ns/ft [4.99 ns/m]
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Velocity of Propagation:	67%	67%
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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

3M

Electronic Solutions Division
Interconnect Solutions
<http://www.3Mconnector.com>

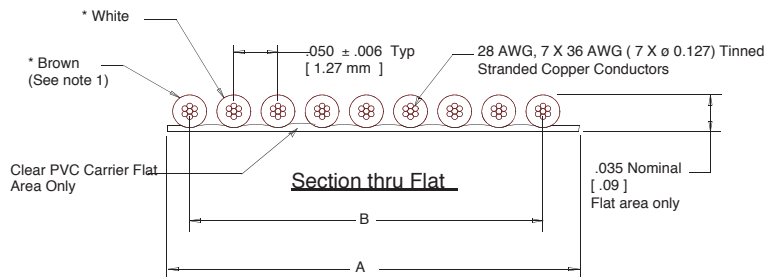
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For technical, sales or ordering information call
800-225-5373

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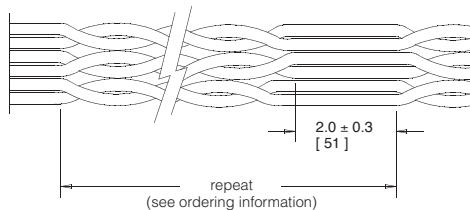
3782 Series

Number of Pairs	3M Part Number	Dimension A	Dimension B
5	3782-5P-XXXX 100FT	0.50 [12.70]	0.450 ± .010 [11.43]
7	3782-7P-XXXX 100FT	0.70 [17.80]	0.650 ± .010 [16.51]
8	3782-8P-XXXX 100FT	0.80 [20.30]	0.750 ± .010 [19.50]
10	3782-10P-XXXX 100FT	1.00 [25.40]	0.950 ± .020 [24.13]
12	3782-12P-XXXX 100FT	1.20 [30.50]	1.150 ± .020 [29.21]
13	3782-13P-XXXX 100FT	1.30 [33.00]	1.250 ± .020 [31.75]
15	3782-15P-XXXX 100FT	1.50 [38.10]	1.450 ± .020 [36.83]
17	3782-17P-XXXX 100FT	1.70 [43.20]	1.650 ± .020 [41.91]
20	3782-20P-XXXX 100FT	2.00 [50.80]	1.950 ± .020 [49.53]
25	3782-25P-XXXX 100FT	2.50 [63.50]	2.450 ± .020 [62.23]
30	3782-30P-XXXX 100FT	3.00 [76.20]	2.950 ± .020 [74.93]
32	3782-32P-XXXX 100FT	3.20 [81.30]	3.150 ± .020 [80.01]
34	3782-34P-XXXX 100FT	3.40 [86.40]	3.350 ± .020 [85.09]



* 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

Note:

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
540 = 540 mm repeat

Number of Pairs
(See Table)

Note: Available in standard 100 ft rolls. Contact 3M for availability of additional conductor counts and/or custom roll lengths.

TS-0999-D
Sheet 2 of 2

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**3M Electronics Solutions Division**

6801 River Place Blvd.
Austin, TX 78726-9000
U.S.A.
1-800-225-5373
www.3Mconnector.com

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