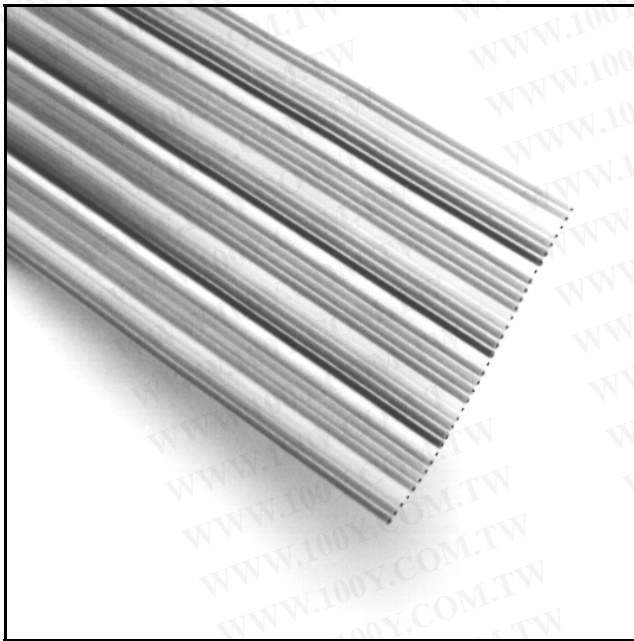


3M™ Color Coded Flat Cable

.050" 28 AWG Stranded, PVC

3302 Series



- 28 AWG wire on .050 inch centers permits mass termination to a broad line of IDC connectors
- Stranded wire provides flexibility and extended product life
- Zippable for branching or discrete termination
- Color coded for wire identification
- RoHS* Compliant

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Date Modified: January 17, 2005

TS-0123-12
Sheet 1 of 2

Physical


Insulation


Material: Polyvinyl Chloride (PVC)

Color: 10 Color Repeat, Clear Carrier

Marking:

Standard: None

Canadian Option:  AWM 20462 105C 300V VW1 3M NU

 AWM IA 80C 150V FT1
EU <50V

Conductors: 28 AWG 7 × 36 [7 × 0.127] Tinned Stranded Copper

Electrical

Voltage Rating: USA: 300V

Canada: 150V

EU: <50V

Insulation Resistance: >1 × 10⁹Ω /10ft [3m]

Unbalanced

Characteristic Impedance: Unbalanced: 105 Ω

Capacitance: Unbalanced: 14.1 pF/ft. [46.3 pF/m]

Inductance: Unbalanced: .15 μH/ft. [0.49 μH/m]

Propagation Delay: Unbalanced: 1.47 ns/ft. [4.82 ns/m]

Velocity of Propagation: 69%

Note: Unbalanced is measured between ground-signal-ground conductors.

Environmental

Temperature Rating: -20°C to +105°C

Canada: -20°C to +80°C

Flammability Rating: USA: VW-1

Canada: FT1

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

Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment
RoHS = Directive 2002/95/EC,

3M

Interconnect Solutions

<http://www.3M.com/interconnects/>

3M is a trademark of 3M Company.

For technical, sales or ordering information call

800-225-5373

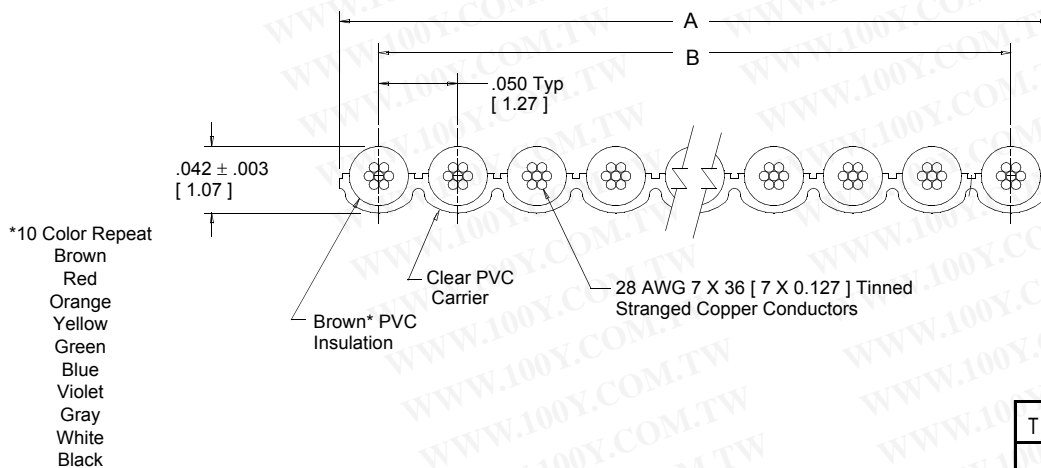
3M™ Color Coded Flat Cable

.050" 28 AWG Stranded, PVC

3302 Series

| Number of Conductors | 3M Part Number | Dimension A | Dimension B |
|----------------------|----------------|------------------------|------------------------|
| 09 | 3302/09 | 0.450 ± .015 [11.43] | 0.400 ± .010 [10.18] |
| 10 | 3302/10 | 0.500 ± .015 [12.70] | 0.450 ± .010 [11.43] |
| 14 | 3302/14 | 0.700 ± .015 [17.78] | 0.650 ± .010 [16.51] |
| 15 | 3302/15 | 0.750 ± .015 [19.05] | 0.700 ± .010 [17.78] |
| 16 | 3302/16 | 0.800 ± .020 [20.32] | 0.750 ± .015 [19.05] |
| 18 | 3302/18 | 0.900 ± .020 [22.86] | 0.850 ± .015 [21.59] |
| 20 | 3302/20 | 1.000 ± .020 [25.40] | 0.950 ± .015 [24.13] |
| 24 | 3302/24 | 1.200 ± .020 [30.48] | 1.150 ± .015 [29.21] |
| 25 | 3302/25 | 1.250 ± .020 [31.75] | 1.200 ± .015 [30.48] |
| 26 | 3302/26 | 1.300 ± .020 [33.02] | 1.250 ± .015 [31.75] |
| 30 | 3302/30 | 1.500 ± .025 [38.10] | 1.450 ± .020 [36.83] |
| 34 | 3302/34 | 1.700 ± .025 [43.18] | 1.650 ± .020 [41.91] |
| 36 | 3302/36 | 1.800 ± .025 [45.72] | 1.750 ± .020 [44.45] |
| 37 | 3302/37 | 1.850 ± .025 [46.99] | 1.800 ± .020 [45.72] |
| 40 | 3302/40 | 2.000 ± .025 [50.80] | 1.950 ± .020 [49.53] |
| 50 | 3302/50 | 2.500 ± .025 [63.50] | 2.450 ± .020 [62.23] |
| 60 | 3302/60 | 3.000 ± .025 [76.20] | 2.950 ± .020 [74.93] |
| 64 | 3302/64 | 3.200 ± .025 [81.28] | 3.150 ± .020 [80.01] |

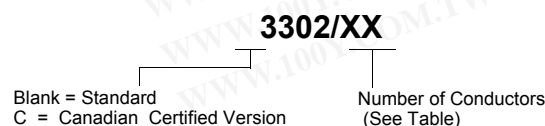
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



| Inch [mm] | | | |
|------------------------|-----|------|-------|
| Tolerance Unless Noted | | | |
| | .0 | .00 | .000 |
| inch | ±.1 | ±.01 | ±.005 |

[] Dimensions for Reference Only

Ordering Information



Note: Available in standard lengths of 100 feet or 300 feet per roll, please specify when ordering.

TS-0123-12
 Sheet 2 of 2

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of 1 year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**



Electronic Solutions Division

6801 River Place Blvd.
Austin, TX 78726-9000
www.3M.com/esd



Minimum 10%
Post-consumer Fiber

Printed in USA.

© 3M 2005