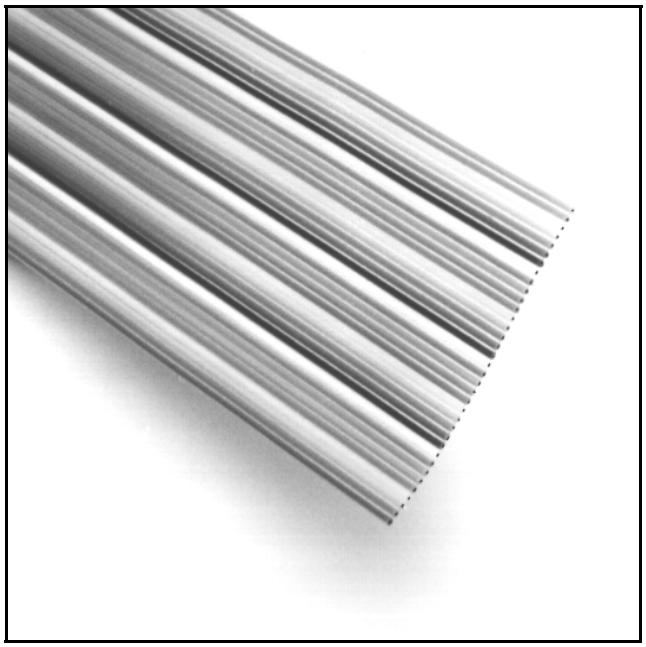
# 3M™ Color Coded Flat Cable

.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

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
C 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 x $10^9\Omega$ /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

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



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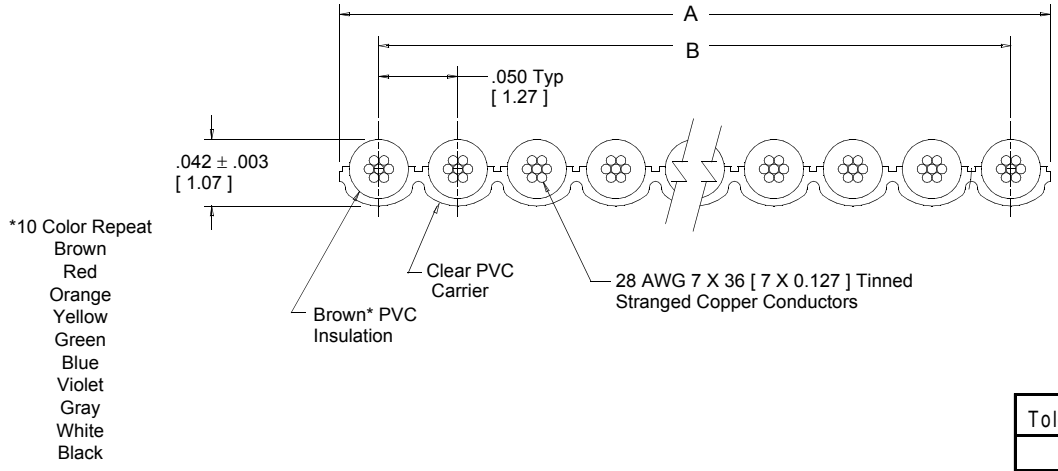
For technical, sales or ordering information call
**800-225-5373**

# 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 ] |

(OPTIONAL)




**Inch**
[mm]

| Tolerance Unless Noted | | | |
|---|---|---|---|
| | .0 | .00 | .000 |
| inch | ±.1 | ±.01 | ±.005 |

[ ] Dimensions for Reference Only

## Ordering Information

**3302/XX**

- Blank = Standard
  C = Canadian Certified Version
- Number of Conductors (See Table)

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



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