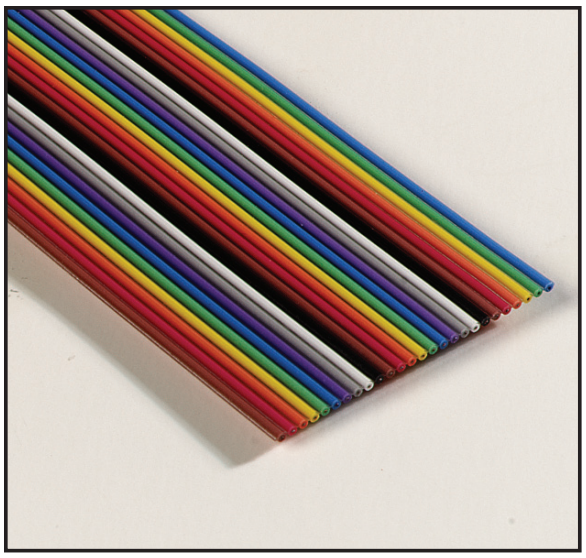
3M™ Color Coded Flat Cable

.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. See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: May 1, 2012

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 AWG [7 × Ø 0.127] Tinned Stranded Copper

Electrical

Voltage Rating:	USA: 300V Canada: 150V EU: <50V
Insulation Resistance:	> 1×10^9 Ω/10 ft. [3 m]
Characteristic Impedance:	**Unbalanced** 105 Ω
Capacitance:	14.1 pF/ft [46.3 pF/m]
Inductance:	0.15 µH/ft [0.49 µH/m]
Propagation Delay:	1.47 ns/ft [4.82 ns/m]
Velocity of Propagation:	69%

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

Environmental

Temperature Rating:	USA: -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

3M is a trademark of 3M Company.

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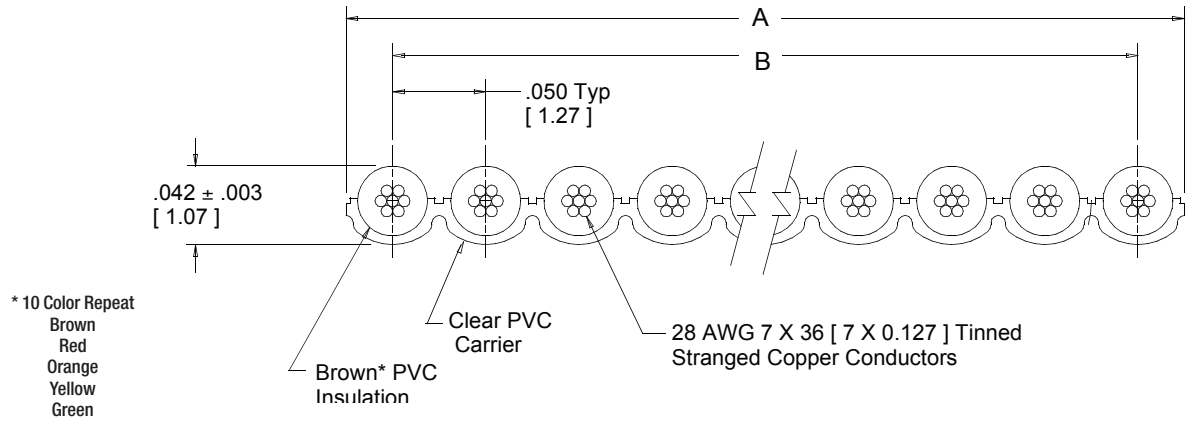
c (OPTIONAL)

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]

Inch
[mm]

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

[ ] Dimensions for Reference Only



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

Ordering Information

3302/XX XXC

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

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

3M
Interconnect Solutions
http://www.3Mconnectors.com

3M is a trademark of 3M Company.
For technical, sales or ordering information call
800-225-5373

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3M Electronics Solutions Division
6801 River Place Blvd.
Austin, TX 78726-9000
U.S.A.
1-800-225-5373
www.3Mconnectors.com

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