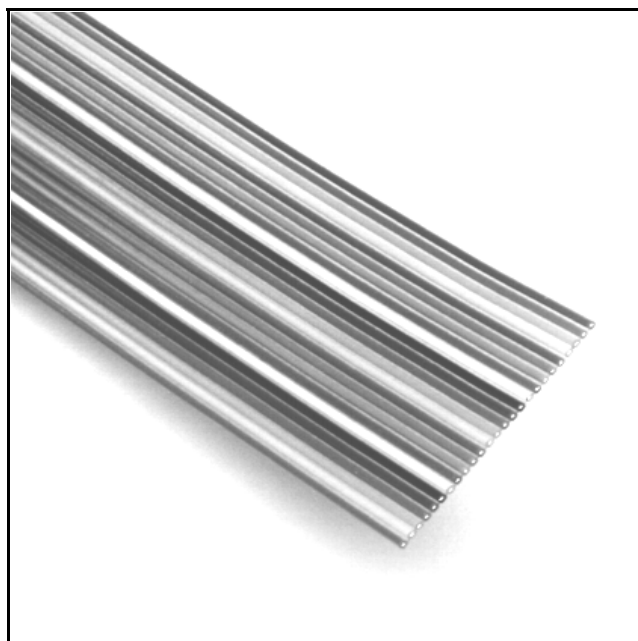# 3M™ Color Coded Flat Cable

.050″ 26 AWG Stranded, PVC

3811 Series

- .050 inch centers permit mass termination to a broad line of IDC connectors
- 26 AWG wire allows for higher power levels
- Stranded wire provides flexibility and extended product life
- Zippable for branching or discrete termination
- Color coded for wire identification
- RoHS* Compliant

Date Modified: January 19, 2005

TS-0122-010
Sheet 1 of 2

Physical

Insulation

Material: Polyvinyl Chloride (PVC)

Color: 10 Color Repeat, Clear Carrier

Marking:

Standard: None

Canadian Option:

RU AWM 20462 105C 300V VW1   3M NU
CRU AWM IA 80C 150V FT1
EU <50V

Conductors: 26 AWG 7 × 34 [7 × 0.160] Tinned Stranded Copper

Electrical

Voltage Rating:	USA: 300V	Canada: 150V	EU: <50V

Insulation Resistance: $>1 \times 10^9 \Omega$ /10ft [3m]

Unbalanced

Characteristic Impedance: Unbalanced: 95 Ω

Capacitance: Unbalanced: 14.8 pF/ft. [48.6 pF/m]

Inductance: Unbalanced: .13 μH/ft. [0.43 μH/m]

Propagation Delay: Unbalanced: 1.41 ns/ft. [4.63 ns/m]

Velocity of Propagation: 72%

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,
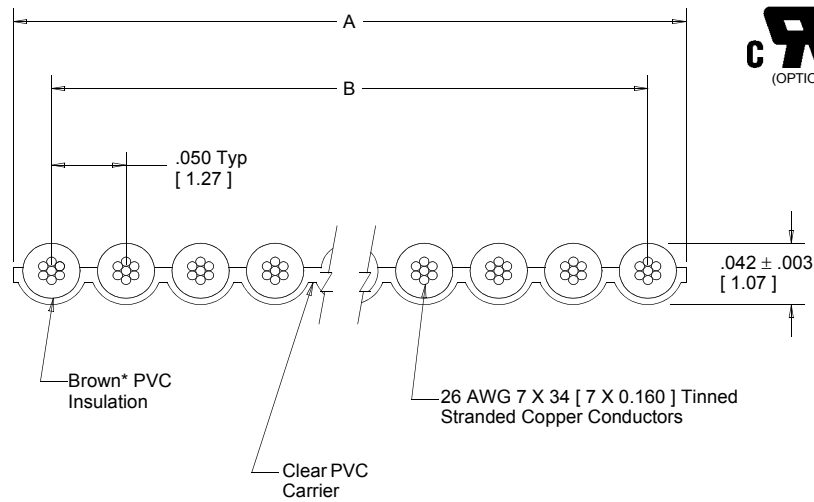Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

3M™ Color Coded Flat Cable

.050″ 26 AWG Stranded, PVC

3811 Series

Number of Conductors	3M Part Number	Dimension A	Dimension B
09	3811/09	0.450 ± .015 [11.43]	0.400 ± .010 [10.16]
10	3811/10	0.500 ± .015 [12.70]	0.450 ± .010 [11.43]
14	3811/14	0.700 ± .015 [17.78]	0.650 ± .010 [16.51]
15	3811/15	0.750 ± .015 [19.05]	0.700 ± .010 [17.78]
16	3811/16	0.800 ± .020 [20.32]	0.750 ± .015 [19.05]
18	3811/18	0.900 ± .020 [22.86]	0.850 ± .015 [21.59]
20	3811/20	1.000 ± .020 [25.40]	0.950 ± .015 [24.13]
24	3811/24	1.200 ± .020 [30.48]	1.150 ± .015 [29.21]
25	3811/25	1.250 ± .020 [31.75]	1.200 ± .015 [30.48]
26	3811/26	1.300 ± .020 [33.02]	1.250 ± .015 [31.75]
30	3811/30	1.500 ± .025 [38.10]	1.450 ± .020 [36.83]
34	3811/34	1.700 ± .025 [43.18]	1.650 ± .020 [41.91]
36	3811/36	1.800 ± .025 [45.72]	1.750 ± .020 [44.45]
37	3811/37	1.850 ± .025 [46.99]	1.800 ± .020 [45.72]
40	3811/40	2.000 ± .025 [50.80]	1.950 ± .020 [49.53]
50	3811/50	2.500 ± .025 [63.50]	2.450 ± .020 [62.23]
60	3811/60	3.000 ± .025 [76.20]	2.950 ± .020 [74.93]
64	3811/64	3.200 ± .025 [81.28]	3.150 ± .020 [80.01]

A

B

.050 Typ
[1.27]

.042 ± .003
[1.07]

c ᴿᵁ ᴿᵁ ®
(OPTIONAL)

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

Brown* PVC Insulation

26 AWG 7 X 34 [7 X 0.160] Tinned Stranded Copper Conductors

Clear PVC Carrier

Inch
[mm]

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

[ ] Dimensions for Reference Only

Ordering Information

3811/XX

Blank = Standard
C = Canadian Certified Version

Number of Conductors
(See Table)

TS-0122-10
Sheet 2 of 2
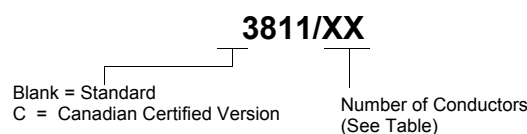
Note: Available in standard lengths of 100 feet or 300 feet per roll, please specify when ordering.

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

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

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