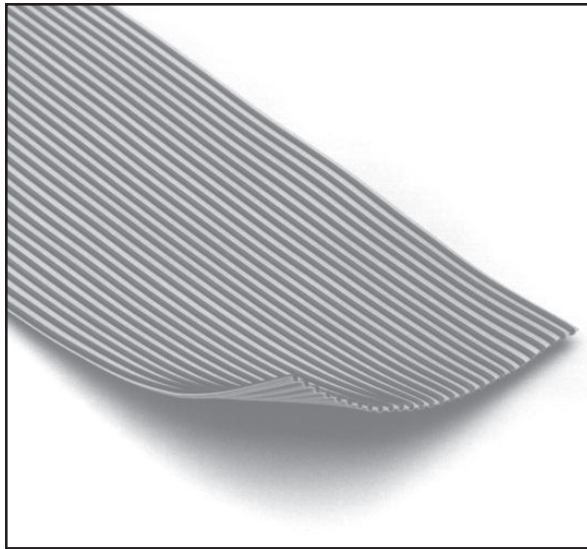


# 3M™ Round Conductor Flat Cable

.100" 24 AWG Stranded, PVC

8125 Series



- Designed for power applications requiring higher current carrying capability
- 24 AWG tinned stranded copper wire provides flexibility and extended product life
- Individually insulated conductors are laminated to a PVC backing which can be zipped apart for branching or discrete terminations
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the "RoHS Compliance" section of [www.3Mconnectors.com](http://www.3Mconnectors.com) for compliance information (RIA E1 and C1 apply).

Date Modified: August 29, 2018

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## Physical

### Insulation:

Material: Polyvinyl Chloride (PVC)

Color: Dark Gray Wires

**Marking Standard:** None

Canadian Option:  AWM 20462 105C 300V VW1 3M NU C  AWM IA 80C 150V FT1 EU <50V

**Conductors:** 24 AWG 7 × 32 [ 7 × 0.203 ] Tinned Stranded Copper

## Electrical

**Voltage Rating:** USA: 300V

Canada: 150V

EU: <50V

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

**Characteristic Impedance:** Unbalanced: 136  $\Omega$

**Capacitance:** Unbalanced: 9.6 pF/ft [ 31.5 pF/m ]

**Inductance:** Unbalanced: 0.18  $\mu\text{H/ft [ 0.59 } \mu\text{H/m ]}$

**Propagation Delay:** Unbalanced: 1.30 ns/ft [ 4.27 ns/m ]

**Velocity of Propagation:** Unbalanced: 78%

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



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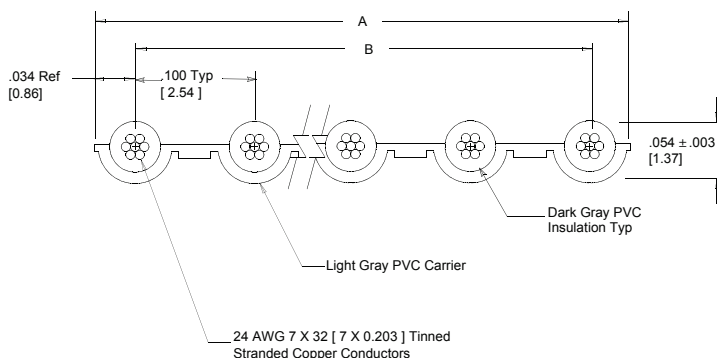
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Number of Conductors	3M Part Number	Dimension A	Dimension B
04	8125/04	0.368 ± .010 [ 9.35 ]	0.300 ± .007 [ 7.62 ]
06	8125/06	0.568 ± .010 [ 14.43 ]	0.500 ± .007 [ 12.70 ]
08	8125/08	0.768 ± .010 [ 19.51 ]	0.700 ± .007 [ 17.78 ]
10	8125/10	0.968 ± .010 [ 24.59 ]	0.900 ± .007 [ 22.86 ]
12	8125/12	1.168 ± .015 [ 29.67 ]	1.100 ± .011 [ 27.94 ]
13	8125/13	1.268 ± .015 [ 32.21 ]	1.300 ± .011 [ 33.02 ]
14	8125/14	1.368 ± .015 [ 34.65 ]	1.300 ± .011 [ 33.02 ]
15	8125/15	1.468 ± .015 [ 37.29 ]	1.400 ± .011 [ 35.56 ]
17	8125/17	1.668 ± .015 [ 42.37 ]	1.600 ± .011 [ 40.64 ]
20	8125/20	1.968 ± .015 [ 49.99 ]	1.900 ± .011 [ 48.26 ]



Inch  
[mm]

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

Note: Red marking on one edge of cable designates wire #1.

[ ] Dimensions for Reference Only

## Ordering Information

**8125 / XX XX**

Blank = Standard  
C = Canadian Certified Version

Blank = Standard  
SF = Splice Free

Number of Conductors  
(See Table)

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

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3M Electronics Materials Solutions Division  
6801 River Place Blvd.  
Austin, TX 78726-9000  
U.S.A.  
1-800-225-5373  
[www.3M.com/interconnect](http://www.3M.com/interconnect)

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