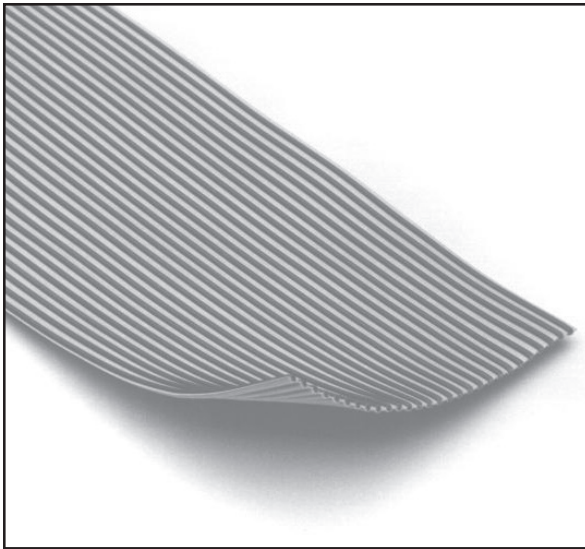


# 3M™ Round Conductor Flat Cable

.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

**3M**

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Interconnect Solutions  
<http://www.3M.com/interconnect>

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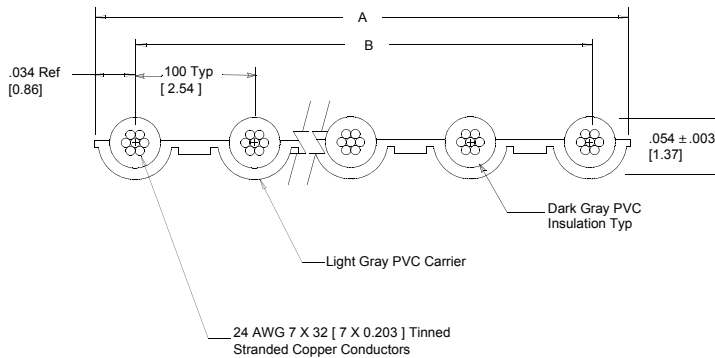
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8125 Series



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 ]

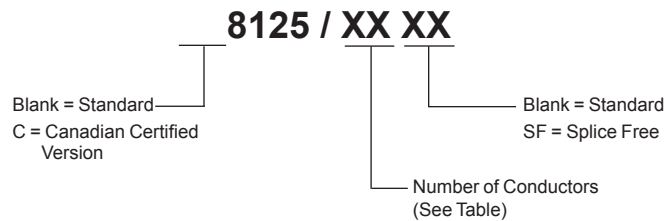


Inch [mm]			
Tolerance Unless Noted			
	.0	.00	.000
Inch	±.1	±.01	±.005

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

[ ] Dimensions for Reference Only

## Ordering Information



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

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Regulatory: For regulatory information about this product, contact your 3M representative.

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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