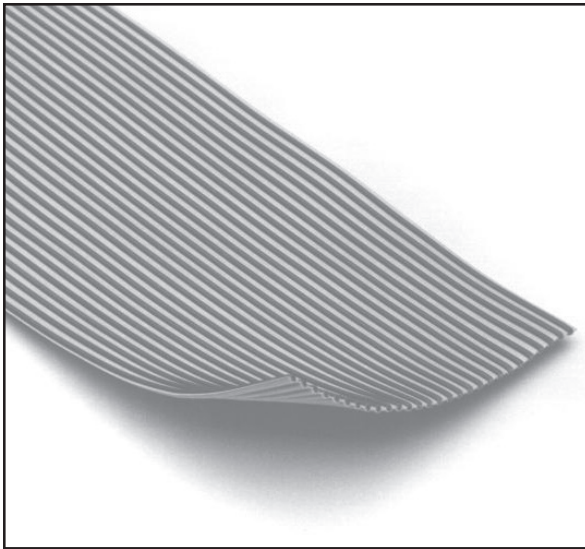


# 3M™ Round Conductor Flat Cable

.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  $\mu\text{H}/\text{ft}$  [ 0.59  $\mu\text{H}/\text{m}$  ]

**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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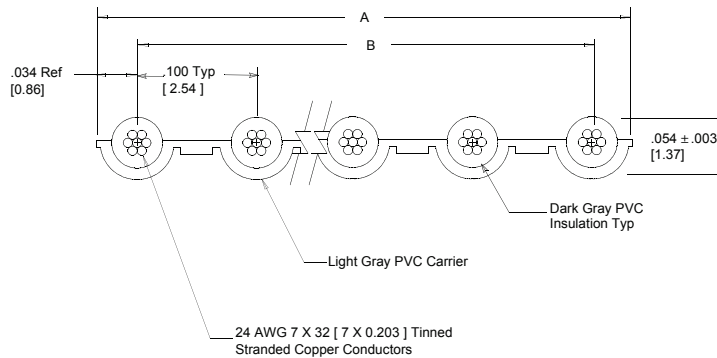
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.100" 24 AWG Stranded, PVC

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 ] |

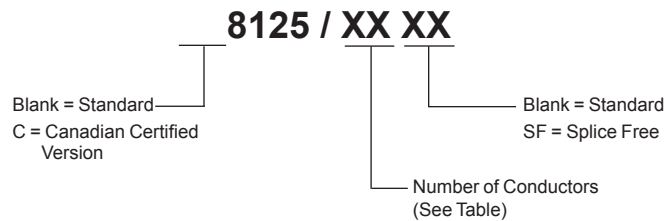


| Tolerance Unless Noted |           |      |       |
|------------------------|-----------|------|-------|
|                        | Inch [mm] |      |       |
|                        | .0        | .00  | .000  |
| Inch                   | ±.1       | ±.01 | ±.005 |

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.

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