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 for compliance information (RIA E1 and C1 apply).

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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 x 32 [ 7 x 0.203 ] Tinned Stranded Copper

Electrical

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

**Insulation Resistance:**  > 1 x 10^10 Ω/10 ft. [ 3 m ]

**Characteristic Impedance:** Unbalanced: 136 Ω

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

**Inductance:**
- Unbalanced: 0.18 μH/ft [ 0.59 μH/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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Number of Conductors | 3M Part Number | Dimension A | Dimension B |
---|---|---|---|
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] |

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

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

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