3M™ Round Conductor Flat Cable
.100” 24 AWG Stranded, PVC

- 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).

**Physical**

**Insulation:**
- Material: Polyvinyl Chloride (PVC)
- Color: Dark Gray Wires

**Marking Standard:** None

**Canadian Option:** AWM IA 80°C 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:**
- USA: -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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8125 Series

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

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

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

Ordering Information

8125 / XX XX

Blank = Standard
C = Canadian Certified Version

Number of Conductors (See Table)
Regulatory: For regulatory information about this product, contact your 3M representative.

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