3M™ Round Conductor Flat Cable
.156" 18 AWG Stranded, PVC

8132 Series

- Designed for power applications requiring higher current carrying capability
- 18 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
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3M.com/Interconnects for compliance information (RIA E1 & C1 apply)

Date Modified: September 1, 2009  TS-0057-C
Sheet 1 of 2

Physical

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

Marking:
- Standard: None

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

Conductors: 18 AWG 19 × 30 AWG [ 19 × Ø 0.254 ] Tinned Stranded Copper

Electrical

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

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

Characteristic Impedance: Unbalanced: 127

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

Inductance: Unbalanced: 0.15 μH/ft [ 0.49 μH/m ]

Propagation Delay: Unbalanced: 1.22 ns/ft [ 4.00 ns/m ]

Velocity of Propagation: Unbalanced: 83%

Note: Unbalanced is measured between ground-signal-ground conductors.

Environmental

Temperature Rating: -20°C to +80°C

Flammability Rating:
- USA: VW-1
- Canada: FT1

UL File No.: E42769, Style No: 20462
3M™ Round Conductor Flat Cable

8132 / XX XX

Ordering Information

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

Light Gray PVC Carrier
18 AWG, 19 x 30 AWG Tinned Copper Conductors

Dimensions for Reference Only

Number of Conductors

<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>4</td>
<td>8132/04</td>
<td>0.048 ± 0.003 (1.22 ± 0.08)</td>
<td>3.96 ± 1.96</td>
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<tr>
<td>5</td>
<td>8132/06</td>
<td>0.077 ± 0.003 (2.01 ± 0.08)</td>
<td>7.78 ± 3.06</td>
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<tr>
<td>6</td>
<td>8132/10</td>
<td>0.156 ± 0.005 (4.01 ± 0.13)</td>
<td>15.60 ± 3.96</td>
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<tr>
<td>7</td>
<td>8132/12</td>
<td>0.156 ± 0.005 (4.01 ± 0.13)</td>
<td>19.91 ± 5.08</td>
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<tr>
<td>8</td>
<td>8132/16</td>
<td>0.156 ± 0.005 (4.01 ± 0.13)</td>
<td>23.22 ± 5.84</td>
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<tr>
<td>9</td>
<td>8132/20</td>
<td>0.156 ± 0.005 (4.01 ± 0.13)</td>
<td>26.53 ± 6.60</td>
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<tr>
<td>10</td>
<td>8132/24</td>
<td>0.156 ± 0.005 (4.01 ± 0.13)</td>
<td>29.84 ± 7.36</td>
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<tr>
<td>11</td>
<td>8132/28</td>
<td>0.156 ± 0.005 (4.01 ± 0.13)</td>
<td>33.15 ± 8.12</td>
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<tr>
<td>12</td>
<td>8132/32</td>
<td>0.156 ± 0.005 (4.01 ± 0.13)</td>
<td>36.46 ± 8.88</td>
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<tr>
<td>13</td>
<td>8132/36</td>
<td>0.156 ± 0.005 (4.01 ± 0.13)</td>
<td>39.77 ± 9.64</td>
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<tr>
<td>14</td>
<td>8132/40</td>
<td>0.156 ± 0.005 (4.01 ± 0.13)</td>
<td>43.08 ± 10.40</td>
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<tr>
<td>15</td>
<td>8132/44</td>
<td>0.156 ± 0.005 (4.01 ± 0.13)</td>
<td>46.39 ± 11.16</td>
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<td>16</td>
<td>8132/48</td>
<td>0.156 ± 0.005 (4.01 ± 0.13)</td>
<td>49.70 ± 11.92</td>
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<tr>
<td>17</td>
<td>8132/52</td>
<td>0.156 ± 0.005 (4.01 ± 0.13)</td>
<td>53.01 ± 12.68</td>
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<tr>
<td>18</td>
<td>8132/56</td>
<td>0.156 ± 0.005 (4.01 ± 0.13)</td>
<td>56.32 ± 13.44</td>
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<tr>
<td>19</td>
<td>8132/60</td>
<td>0.156 ± 0.005 (4.01 ± 0.13)</td>
<td>59.63 ± 14.20</td>
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<tr>
<td>20</td>
<td>8132/64</td>
<td>0.156 ± 0.005 (4.01 ± 0.13)</td>
<td>62.94 ± 14.96</td>
</tr>
</tbody>
</table>

Note: Contact 3M for availability of additional conductor counts.

Light Gray PVC Insulation
Dark Gray PVC Outer Sheath

For technical, sales or ordering information call 800-225-5373.
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