

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

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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: 18 AWG 19 × 30 AWG [19 × Ø 0.254] 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: 127

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

Inductance: Unbalanced: 0.15 $\mu\text{H}/\text{ft}$ [0.49 $\mu\text{H}/\text{m}$]

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 Canada: -20°C to +80°C

Flammability Rating: USA: VW-1 Canada: FT1

UL File No.: E42769, Style No: 20462

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

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800-225-5373

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| Number of Conductors | 3M Part Number | Dimension A | Dimension B |
|----------------------|----------------|----------------------|----------------------|
| 4 | 8132/04 | 0.564 ± .015 [14.33] | 0.468 ± .010 [11.89] |
| 5 | 8132/05 | 0.720 ± .015 [18.29] | 0.624 ± .010 [15.85] |
| 6 | 8132/06 | 0.876 ± .015 [22.25] | 0.780 ± .010 [19.81] |
| 7 | 8132/07 | 1.032 ± .015 [26.21] | 0.936 ± .010 [23.77] |
| 8 | 8132/08 | 1.188 ± .015 [30.18] | 1.092 ± .010 [27.74] |
| 9 | 8132/09 | 1.344 ± .020 [34.14] | 1.248 ± .015 [31.70] |
| 10 | 8132/10 | 1.500 ± .020 [38.10] | 1.404 ± .015 [35.66] |
| 11 | 8132/11 | 1.656 ± .020 [42.06] | 1.560 ± .015 [39.62] |
| 12 | 8132/12 | 1.812 ± .020 [46.02] | 1.716 ± .015 [43.59] |
| 13 | 8132/13 | 1.968 ± .020 [49.99] | 1.872 ± .015 [47.55] |
| 14 | 8132/14 | 2.124 ± .020 [53.95] | 2.028 ± .015 [51.51] |
| 15 | 8132/15 | 2.280 ± .025 [57.91] | 2.184 ± .020 [55.47] |
| 16 | 8132/16 | 2.436 ± .025 [61.87] | 2.340 ± .020 [59.44] |
| 17 | 8132/17 | 2.592 ± .025 [65.84] | 2.496 ± .020 [63.40] |
| 18 | 8132/18 | 2.748 ± .025 [69.80] | 2.652 ± .020 [67.36] |
| 19 | 8132/19 | 2.904 ± .025 [73.76] | 2.808 ± .020 [71.32] |
| 20 | 8132/20 | 3.060 ± .025 [77.72] | 2.964 ± .020 [75.29] |
| 21 | 8132/21 | 3.216 ± .025 [81.69] | 3.120 ± .020 [79.25] |
| 22 | 8132/22 | 3.372 ± .025 [85.65] | 3.276 ± .020 [83.21] |
| 23 | 8132/23 | 3.528 ± .025 [89.61] | 3.432 ± .020 [87.17] |
| 24 | 8132/24 | 3.684 ± .025 [93.57] | 3.588 ± .020 [91.14] |

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



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

[] Dimensions for Reference Only

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

Ordering Information

8132 / XX XX



Note: Available in standard 100 ft or 300 ft rolls, please specify when ordering. Contact 3M for availability of additional conductor counts and/or custom roll lengths.

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RIA-2217B-E

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