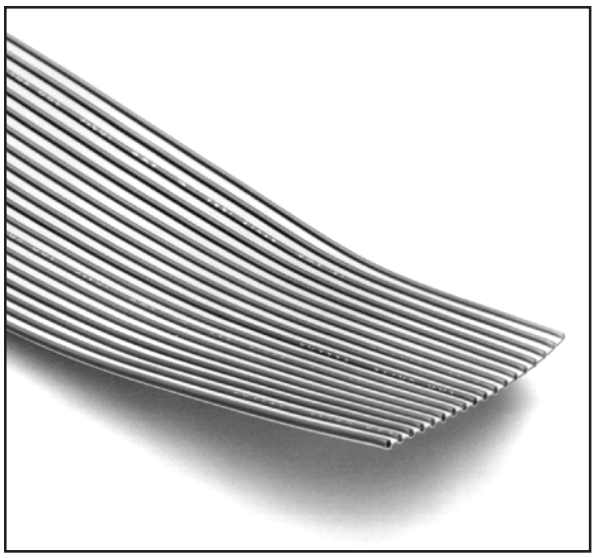
3M™ Round Conductor Flat Cable

.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

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:	> 1×10^{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	Canada: -20°C to +80°C
Flammability Rating:	USA: VW-1	Canada: FT1

UL File No.: E42769, Style No: 20462

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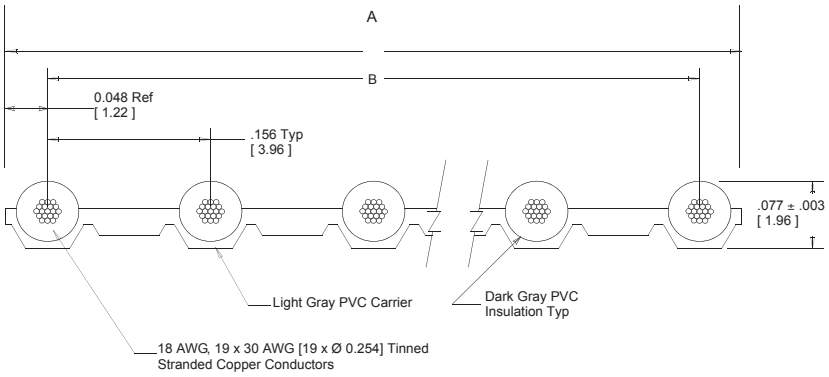
c (OPTIONAL)

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.



Inch
[mm]

Tolerance Unless Noted			
	.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

- XX (first): Number of Conductors (See Table)
- XX (second): Blank = Standard; SF = Splice Free

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.

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

3M is a trademark of 3M Company.

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

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