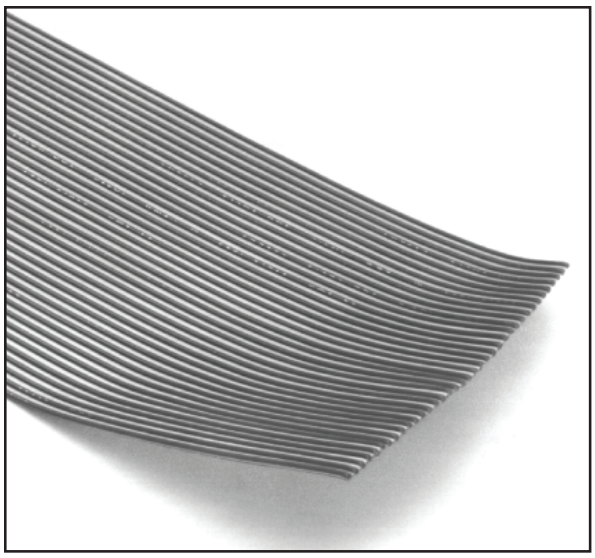
3M™ Round Conductor Flat Cable

.100" 22 AWG Stranded, PVC 8124 Series



- Designed for power applications requiring higher current carrying capability
- 22 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 Regulatory Information Appendix (RIA) for chemical compliance information (RIA E1 & C1 apply)

Date Modified: May 15, 2009

Physical

Insulation:

Material: Polyvinyl Chloride (PVC)

Color: Dark Gray Wires on Light Gray Carrier

Marking:

Standard: None

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

Conductors: 22 AWG 7 × 30 [7 × 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: 119 Ω		
Capacitance:	Unbalanced: 11.0 pF/ft [36.1 pF/m]		
Inductance:	Unbalanced: 0.15 µH/ft [0.49 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

3M is a trademark of 3M Company.

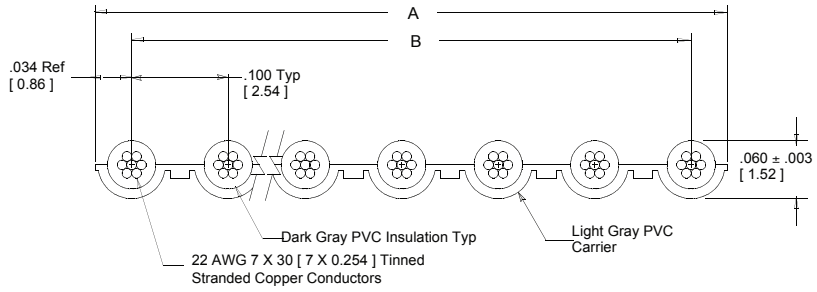
3M™ Round Conductor Flat Cable

.100" 22 AWG Stranded, PVC

8124 Series

c (OPTIONAL)

Number of Conductors	3M Part Number	Dimension A	Dimension B
05	8124/05	0.468 ± .015 [11.89]	0.400 ± .010 [10.16]
06	8124/06	0.568 ± .015 [14.43]	0.500 ± .010 [12.70]
07	8124/07	0.668 ± .015 [16.97]	0.600 ± .010 [15.24]
08	8124/08	0.768 ± .015 [19.51]	0.700 ± .010 [17.78]
09	8124/09	0.868 ± .015 [22.05]	0.800 ± .010 [20.32]
10	8124/10	0.968 ± .015 [24.59]	0.900 ± .010 [22.86]
11	8124/11	1.068 ± .020 [27.13]	1.000 ± .015 [25.40]
12	8124/12	1.168 ± .020 [29.67]	1.100 ± .015 [27.94]
13	8124/13	1.268 ± .020 [32.21]	1.200 ± .015 [30.48]
14	8124/14	1.368 ± .020 [34.75]	1.300 ± .015 [33.02]
15	8124/15	1.468 ± .020 [37.29]	1.400 ± .015 [35.56]
16	8124/16	1.568 ± .020 [39.83]	1.500 ± .015 [38.10]
17	8124/17	1.668 ± .020 [42.37]	1.600 ± .015 [40.64]
18	8124/18	1.768 ± .020 [44.91]	1.700 ± .015 [43.18]
19	8124/19	1.868 ± .020 [47.45]	1.800 ± .015 [45.72]
20	8124/20	1.968 ± .020 [49.99]	1.900 ± .015 [48.26]
21	8124/21	2.068 ± .025 [52.53]	2.000 ± .020 [50.80]
22	8124/21	2.168 ± .025 [55.07]	2.100 ± .020 [53.34]
23	8124/23	2.268 ± .025 [57.61]	2.200 ± .020 [55.88]
24	8124/24	2.368 ± .025 [60.15]	2.300 ± .020 [58.42]
25	8124/25	2.468 ± .025 [62.69]	2.400 ± .020 [60.96]
26	8124/26	2.568 ± .025 [65.23]	2.500 ± .020 [63.50]
27	8124/27	2.668 ± .025 [67.77]	2.600 ± .020 [66.04]
28	8124/28	2.768 ± .025 [70.31]	2.700 ± .020 [68.58]
29	8124/29	2.868 ± .025 [72.85]	2.800 ± .020 [71.12]
30	8124/30	2.968 ± .025 [75.39]	2.900 ± .020 [73.66]
31	8124/31	3.068 ± .025 [77.93]	3.000 ± .020 [76.20]
32	8124/32	3.168 ± .025 [80.47]	3.100 ± .020 [78.74]
33	8124/33	3.268 ± .025 [83.01]	3.200 ± .020 [81.28]
34	8124/34	3.368 ± .025 [85.55]	3.300 ± .020 [83.82]
35	8124/35	3.468 ± .025 [88.09]	3.400 ± .020 [86.36]
36	8124/36	3.568 ± .025 [90.63]	3.500 ± .020 [88.90]
37	8124/37	3.668 ± .025 [93.17]	3.600 ± .020 [91.44]
38	8124/38	3.768 ± .025 [95.71]	3.700 ± .020 [93.98]
39	8124/39	3.868 ± .025 [98.25]	3.800 ± .020 [96.52]
40	8124/40	3.968 ± .025 [100.79]	3.900 ± .020 [99.06]



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

8124 / XX

Blank = Standard
C = Canadian Certified Version

Number of Conductors
(See Table)

Note: Standard length is 100 ft/roll.

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

Regulatory Information Appendix

3M Electronic Solutions Division/Interconnect

EUROPE

Appendix E1: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product is RoHS Compliant 2005/95/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E2: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains lead in the compliant pin area in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/747/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E3: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment as amended by Commission Decision 2005/618/EC.

This product contains lead in the solder tail area in excess of the maximum concentration value allowed.

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In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E4: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC, as amended by EU Commission Decision 2005/717/EC, as amended by EU Court of Justice Decision 2008/C 116/04

This product contains decaBDE in the insulating material in excess of the maximum concentration allowed for finished products subject to EU RoHS that are placed on the EU market after June 30, 2008.

Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E5: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains lead in excess of the maximum concentration value allowed but is compliant by exemption under Item 6 of the Annex to the Directive.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

CHINA

Appendix C1: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.
This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does not** contain any of the following substances in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers (excluding decaBDE); or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

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Appendix C2: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.
This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers (excluding decaBDE); or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

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产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	铅(Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
端子镀层(contact plating)	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)

Appendix C3: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers (excluding decaBDE); or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

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产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	铅(Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
合金(Metal alloy)	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)

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3M Electronics Solutions Division
6801 River Place Blvd.
Austin, TX 78726-9000
U.S.A.
1-800-225-5373
www.3m.com/interconnects

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Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331