

**ALPHA WIRE COMPANY**  
**CUSTOMER PRODUCT SPECIFICATION**

Part Number: 1181/50C  
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Issue: 6  
Issue Date: 5/19/2005  
Effective Date: 8/1/2005

**A. Construction**

Diameters

- |                |                         |       |
|----------------|-------------------------|-------|
| 1) Component 1 | 50 X 1 COND             |       |
| a) Conductor   | 22 (7/30) AWG TC        |       |
| b) Insulation  | 0.010" Wall, Nom. PVC   | 0.050 |
| (1) Color Code | Alpha Wire Color Code D |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	18	WHITE/GREEN	35	WHITE/RED/RED
2	RED	19	WHITE/YELLOW	36	WHITE/RED/GREEN
3	WHITE	20	WHITE/BLUE	37	WHITE/RED/BLUE
4	GREEN	21	WHITE/BROWN	38	WHITE/RED/BROWN
5	ORANGE	22	WHITE/ORANGE	39	WHITE/RED/VIOLET
6	BLUE	23	WHITE/GRAY	40	WHITE/GREEN/BLACK
7	BROWN	24	WHITE/VIOLET	41	WHITE/GREEN/RED
8	YELLOW	25	WHITE/BLACK/RED	42	WHITE/GREEN/GREEN
9	VIOLET	26	WHITE/BLACK/GREEN	43	WHITE/GREEN/BLUE
10	GRAY	27	WHITE/BLACK/YELLOW	44	WHITE/GREEN/BROWN
11	PINK	28	WHITE/BLACK/BLUE	45	WHITE/GREEN/VIOLET
12	TAN	29	WHITE/BLACK/BROWN	46	WHITE/BLUE/BLACK
13	RED/GREEN	30	WHITE/BLACK/ORANGE	47	WHITE/BLUE/RED
14	RED/YELLOW	31	WHITE/BLACK/GRAY	48	WHITE/BLUE/GREEN
15	RED/BLACK	32	WHITE/BLACK/VIOLET	49	WHITE/BLUE/BLUE
16	WHITE/BLACK	33	WHITE/BLACK/BLACK	50	WHITE/BLUE/BROWN
17	WHITE/RED	34	WHITE/RED/BLACK		

- |                   |                                                                                                             |                    |
|-------------------|-------------------------------------------------------------------------------------------------------------|--------------------|
| 2) Cable Assembly | 50 Components Cabled                                                                                        |                    |
| a) Twists:        | 2.0 Twists/foot (min)                                                                                       |                    |
| 3) Jacket         | 0.035" Wall, Nom., PVC                                                                                      | 0.478 (0.503 Max.) |
| a) Color(s)       | GRAY                                                                                                        |                    |
| b) Print          | ALPHA WIRE-* P/N 1181/50C 50/C 22 AWG<br>75C (UL) TYPE CM OR AWM 2576 --- LLXXXXXX<br>CSA TYPE CMG FT4 ROHS |                    |

\* = Factory Code

[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

**B. Industry Approvals**

- |                                   |               |             |
|-----------------------------------|---------------|-------------|
| 1) UL                             | AWM/STYLE2576 | 80°C / 150V |
|                                   | CM            | 75°C        |
|                                   | VW-1          |             |
| 2) CSA International              | CMG           | 60°C        |
|                                   | FT4           |             |
| 3) EU Directive 2002/95/EC(RoHS): |               |             |

All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.

- 4) California Proposition 65: The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

**C. Physical & Mechanical Properties**

- |                      |                    |
|----------------------|--------------------|
| 1) Temperature Range | -20 to 80°C        |
| 2) Bend Radius       | 10X Cable Diameter |
| 3) Pull Tension      | 275 Lbs, Maximum   |

**D. Electrical Properties**

- |                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| (For Engineering purposes only) |                                                 |
| 1) Voltage Rating               | 300 V <sub>RMS</sub>                            |
| 2) Capacitance                  | 33 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance                   | 0.18 µH/ft, Nominal                             |
| 4) Conductor DCR                | 16.5 Ω/1000ft @20°C, Nominal                    |

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**E. Other**

- 1) Packaging
  - a) 1000 FT
  - b) 500 FT
  - c) 100 FT

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