

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

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

**A. Construction**

**Diameters**

- |    |                |                         |       |
|----|----------------|-------------------------|-------|
| 1) | Component 1    | 12 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	5	ORANGE	9	VIOLET
2	RED	6	BLUE	10	GRAY
3	WHITE	7	BROWN	11	PINK
4	GREEN	8	YELLOW	12	TAN

- |    |                |  |                    |
|----|----------------|--|--------------------|
| 2) | Cable Assembly | 12 Components Cabled   |                    |
|    | a) Twists:     | 4.0 Twists/foot (min)  |                    |
| 3) | Jacket         | 0.032" Wall, Nom., PVC   | 0.272 (0.287 Max.) |
|    | a) Color(s)    | GRAY   |                    |
|    | b) Print       | ALPHA WIRE-* P/N 1181C 12/C 22 AWG<br>75C (UL) TYPE CM OR AWM 2576 --- LLXXXXXX<br>CSA TYPE CMG FT4 ROHS<br>* = Factory Code |                    |

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

**B. Industry Approvals**

- |    |                                |  |                     |
|----|--------------------------------|--|---------------------|
| 1) | UL                             | AWM/STYLE2576<br>CM<br>VW-1  | 80°C / 150V<br>75°C |
| 2) | CSA International              | CMG<br>FT4   | 60°C                |
| 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      | 66 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  | 16.4 Ω/1000ft @20°C, Nominal                    |

**E. Other**

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

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