

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

**Part Number: 1178C**  
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**Issue: 6**  
**Issue Date: 5/19/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters**

- |                |                         |       |
|----------------|-------------------------|-------|
| 1) Component 1 | 8 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	4	GREEN	7	BROWN
2	RED	5	ORANGE	8	YELLOW
3	WHITE	6	BLUE		

- |                   |                                                                                                         |                    |
|-------------------|---------------------------------------------------------------------------------------------------------|--------------------|
| 2) Cable Assembly | 8 Components Cabled                                                                                     |                    |
| a) Twists:        | 4.8 Twists/foot (min)                                                                                   |                    |
| 3) Jacket         | 0.032" Wall, Nom., PVC                                                                                  | 0.230 (0.243 Max.) |
| a) Color(s)       | GRAY                                                                                                    |                    |
| b) Print          | ALPHA WIRE-* P/N 1178C 8/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      | 44 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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