

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

**Part Number: 1178C**  
**Page 1 of 1 Pages**

**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 |                    |

75C (UL) TYPE CM OR AWM 2576 --- LLXXXXXX  
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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