

**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 (In)**

- |                |                                 |       |
|----------------|---------------------------------|-------|
| 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 Company 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)       | SLATE  |                    |
| b) Print          | ALPHA WIRE-* P/N 1178C 8C 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/STYLE 2576 | 80°C / 150 VRMS |
|                                   | 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 VRMS  |
| 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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