

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

Part Number: 1297C  
Page 1 of 2 Pages

Issue: 4  
Issue Date: 5/19/2005  
Effective Date: 8/1/2005

**A. Construction**

Diameters

- |                |                         |       |
|----------------|-------------------------|-------|
| 1) Component 1 | 7 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		
3	WHITE	6	BLUE		

- |                   |  |                    |
|-------------------|--|--------------------|
| 2) Cable Assembly | 7 Components Cabled  |                    |
| a) Twists:        | 5.3 Twists/foot (min)  |                    |
| 3) Shield:        | Alum/Mylar Tape, 25% Overlap, Min.   |                    |
| a) Foil Direction | Foil Facing Out  |                    |
| b) Drain Wire     | 22 (7/30) AWG TC   |                    |
| 4) Jacket         | 0.032" Wall, Nom.,PVC  | 0.219 (0.231 Max.) |
| a) Color(s)       | GRAY   |                    |
| b) Print          | ALPHA WIRE-* P/N 1297C 7/C 22 AWG<br>SHIELDED 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  | 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                  | 50 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance           | 90 pf/ft @1 kHz, Nominal                        |
| 4) Inductance                   | 0.18 µH/ft, Nominal                             |
| 5) Conductor DCR                | 16.4 Ω/1000ft @20°C, Nominal                    |
| 6) OA Shield DCR                | 11.8 Ω/1000ft @20°C, Nominal                    |

**E. Other**

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

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c) 100 FT

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