

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

**Part Number: 840275**  
**Page 1 of 2 Pages**

**Issue: 1**  
**Issue Date: 3/17/2009**  
**Effective Date: 3/17/2009**

**A. Construction**

**Diameters (In)**

- |                |                                 |       |
|----------------|---------------------------------|-------|
| 1) Component 1 | 7 X 1 COND                      |       |
| a) Conductor   | 28 (7/36) AWG TC                |       |
| b) Insulation  | 0.016" Wall, Nom. TPE           | 0.047 |
| (1) Color Code | Alpha Wire Company Color Code E |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	4	ORANGE	7	BLUE
2	BROWN	5	YELLOW		
3	RED	6	GREEN		

- |                   |  |                    |
|-------------------|--|--------------------|
| 2) Cable Assembly | 7 Components Cabled  |                    |
| a) Twists:        | 8.0 Twists/foot (min)  |                    |
| b) Core Wrap      | Nonwoven Polyester Tape, 25% Overlap, Min.   |                    |
| 3) Shield:        | A/P/A Tape, 25% Overlap, Min.  |                    |
| a) Drain Wire     | 28 (7/36) AWG TC   |                    |
| b) Braid          | TC, 70% Coverage, Min.   |                    |
| 4) Jacket         | 0.035" Wall, Nom., TPE   | 0.244 (0.250 Max.) |
| a) Color(s)       | BLACK  |                    |
| b) Ripcord        | 1 End 810 Denier Nylon   |                    |
| c) Print          | ALPHA WIRE-* P/N 840275 7C 28 AWG<br>XTRAGUARD 4 RU AWM 20237 --- LLXXXXXX CSA AWM<br>I/II A/B 125C 300 VOLTS FT1      CE<br><SEQ FOOTAGE><br>* = Factory Code |                    |

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

**B. Industry Approvals**

- |                               |  |                              |
|-------------------------------|--|------------------------------|
| 1) UL                         | AWM/STYLE 20237  | 125°C / 300 V <sub>RMS</sub> |
| 2) CSA International          | AWM I/II A/B<br>FT1  | 125°C / 300 V <sub>RMS</sub> |
| 3) California Proposition 65: | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. |                              |
| 4) CE:                        | LVD 73/23/EEC Amendment 93/68/EEC  |                              |

**C. Physical & Mechanical Properties**

- |                        |                    |
|------------------------|--------------------|
| 1) Temperature Range   | -50 to 125°C       |
| 2) Bend Radius         | 10X Cable Diameter |
| 3) Pull Tension        | 16.4 Lbs, Maximum  |
| 4) Sunlight Resistance | Yes                |

**D. Electrical Properties**

(For Engineering purposes only)

- |                       |   |
|-----------------------|---|
| 1) Voltage Rating     | 300 V <sub>RMS</sub>                              |
| 2) Capacitance        | 13.9 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 25 pf/ft @1 kHz, Nominal                          |
| 4) Inductance         | 0.25 µH/ft, Nominal                               |
| 5) Conductor DCR      | 66 Ω/1000ft @20°C, Nominal                        |
| 6) OA Shield DCR      | 4.2 Ω/1000ft @20°C, Nominal                       |

**E. Other**

- |                        |  |
|------------------------|--|
| 1) Packaging           |  |
| a) Bulk(Made-to-order) |  |

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**This Design is custom, Made-To-Order & once accepted, the order is NON-CANCELLABLE & NON-RETURNABLE.**

Accepted By:	Date:
Company:	Title:

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