

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

**Part Number: 86701CY**  
**Page 1 of 2 Pages**

**Issue: 9**  
**Issue Date: 1/29/2008**  
**Effective Date: 3/1/2008**

**A. Construction**

**Diameters**

- |    |                |                                   |       |
|----|----------------|-----------------------------------|-------|
| 1) | Component 1    | 1 X 1 PAIR                        |       |
|    | a) Conductor   | 22 (19/34) AWG TC                 |       |
|    | b) Insulation  | 0.010" Wall, Nom. PVC, Semi Rigid | 0.052 |
|    | (1) Color Code | Alpha Wire Color Code A           |       |
- 
- | Pair | Color     | Pair | Color | Pair | Color |
|------|-----------|------|-------|------|-------|
| 1    | BLACK-RED |      |       |      |       |
- 
- |    |                     |   |                |
|----|---------------------|---|----------------|
| c) | Cabling             | 2 COND Cabled   |                |
|    | (1) Twists:         | 8.0 Twists/foot (min)   |                |
|    | (2) Core Wrap       | Nonwoven Polyester Tape, 25% Overlap, Min.  |                |
| 2) | Shield:             | Flex Alum/Mylar Tape, 25% Overlap, Min.   |                |
|    | a) Foil Direction   | Foil Facing Out   |                |
|    | b) Drain Wire       | 26 (7/34) AWG TC  |                |
|    | c) Braid            | TC, 85% Coverage, Min.  |                |
| 3) | Jacket              | 0.040" Wall, Nom., PVC  | 0.220+/- 0.010 |
|    | a) Color(s)         | GRAY  |                |
|    | b) Jacket Separator | Tissue Tape, 25% Overlap, Min.  |                |
|    | c) Print            | ALPHA WIRE-* P/N 86701CY 1PR 22 AWG<br>XTRAGUARD CONTINUOUS FLEX DATA CABLE XTREME<br>PERFORMANCE FOR XTREME ENVIRONMENTS -<br>(UL) 105C TYPE CM OR AWM 2661 105C 300V ---<br>LLXXXXXX CSA 105C TYPE CMG OR AWM IA/B IIA/B<br>FT4 105C 300V CE ROHS <SEQ FOOTAGE><br>* = Factory Code |                |

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

**B. Industry Approvals**

- |    |                                |  |              |
|----|--------------------------------|--|--------------|
| 1) | UL                             |  |              |
|    | a) Component 1                 | AWM/STYLE10002   | 105°C / 300V |
|    | b) Overall                     | AWM/STYLE2661  | 105°C / 300V |
|    |                                | CM   | 105°C        |
| 2) | CSA International              | AWM-I-A/B-II-A/B   | 105°C / 300V |
|    |                                | CMG  | 105°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.   |              |
| 5) | CE:                            | LVD 73/23/EEC Amendment 93/68/EEC  |              |

**C. Physical & Mechanical Properties**

- |    |                     |   |  |
|----|---------------------|---|--|
| 1) | Temperature Range   | -10 to 105°C(static), +5 to 105°C (dynamic)             |  |
| 2) | Bend Radius         | 10X Cable Diameter(static), 15X Cable Diameter(dynamic) |  |
| 3) | Pull Tension        | 17.3 Lbs, Maximum                                       |  |
| 4) | Sunlight Resistance | Yes   |  |

**D. Electrical Properties** (For Engineering purposes only)

- |    |                          |                          |  |
|----|--------------------------|--------------------------|--|
| 1) | Voltage Rating           | 300 V <sub>RMS</sub>     |  |
| 2) | Mutual Capacitance       | 43 pf/ft @1 kHz, Nominal |  |
| 3) | Ground Capacitance       | 77 pf/ft @1 kHz, Nominal |  |
| 4) | Characteristic Impedance | 45 Ω                     |  |
| 5) | Inductance               | 0.17 μH/ft, Nominal      |  |

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- 6) Conductor DCR 15.1  $\Omega$ /1000ft @20°C, Nominal
- 7) OA Shield DCR 4.9  $\Omega$ /1000ft @20°C, Nominal

**E. Other**

- 1) Packaging
  - a) 1000 FT
  - b) 500 FT
  - c) 100 FT

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