

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

**Part Number: 86005CY**  
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**Issue: 9**  
**Issue Date: 7/7/2009**  
**Effective Date: 7/21/2009**

**A. Construction**

**Diameters (In)**

- |    |                |                                   |       |
|----|----------------|-----------------------------------|-------|
| 1) | Component 1    | 5 X 1 COND                        |       |
|    | a) Conductor   | 28 (7/36) AWG TC                  |       |
|    | b) Insulation  | 0.010" Wall, Nom. PVC, Semi Rigid | 0.035 |
|    | (1) Color Code | Alpha Wire Company Color Code D   |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	WHITE	5	ORANGE
2	RED	4	GREEN		

- |    |                     |   |                |
|----|---------------------|---|----------------|
| 2) | Cable Assembly      | 5 Components Cabled   |                |
|    | a) Twists:          | 12.0 Twists/foot (min)  |                |
|    | b) Core Wrap        | Nonwoven Polyester Tape, 25% Overlap, Min.  |                |
| 3) | Shield:             | Flex Alum/Mylar Tape, 25% Overlap, Min.   |                |
|    | a) Foil Direction   | Foil Facing Out   |                |
|    | b) Drain Wire       | 26 (7/34) AWG TC  |                |
|    | c) Single Serve     | TC,90% Coverage, Min.   |                |
| 4) | Jacket              | 0.040" Wall, Nom.,PVC   | 0.200+/- 0.011 |
|    | a) Color(s)         | SLATE   |                |
|    | b) Jacket Separator | Tissue Tape, 25% Overlap, Min.  |                |
|    | c) Print            | ALPHA WIRE-* P/N 86005CY 5C 28 AWG<br>XTRAGUARD CONTINUOUS FLEX DATA CABLE<br>(UL) 105C TYPE CM --- C(UL) CMG OR AWM 2661<br>105C 300V --- LLXXXXXX CSA AWM I/II A/B FT4 105C<br>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/STYLE 10002                   | 105°C / 300 V <sub>RMS</sub> |
|    | b) Overall        | AWM/STYLE 2661                    | 105°C / 300 V <sub>RMS</sub> |
|    |                   | CM                                | 105°C                        |
| 2) | CSA International | AWM I/II A/B                      | 105°C / 300 V <sub>RMS</sub> |
|    |                   | C(UL) TYPE CMG                    | 105°C                        |
|    |                   | FT4                               |                              |
| 3) | CE:               | LVD 73/23/EEC Amendment 93/68/EEC |                              |

**C. Environmental Approvals**

- |    |                                |  |
|----|--------------------------------|--|
| 1) | 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. |
| 2) | California Proposition 65:     | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.   |

**D. Physical & Mechanical Properties**

- |    |                     |   |
|----|---------------------|---|
| 1) | Temperature Range   | -10 to 105°C(static), +5 to 105°C (dynamic)           |
| 2) | Bend Radius         | 8X Cable Diameter(static), 8X Cable Diameter(dynamic) |
| 3) | Pull Tension        | 11.4 Lbs, Maximum                                     |
| 4) | Sunlight Resistance | Yes   |

**E. Electrical Properties**

- |                                 |                    |   |
|---------------------------------|--------------------|---|
| (For Engineering purposes only) |                    |   |
| 1)                              | Voltage Rating     | 300 V <sub>RMS</sub>                            |
| 2)                              | Capacitance        | 25 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3)                              | Ground Capacitance | 45 pf/ft @1 kHz, Nominal                        |
| 4)                              | Inductance         | 0.22 μH/ft, Nominal                             |
| 5)                              | Conductor DCR      | 66 Ω/1000ft @20°C, Nominal                      |

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6) OA Shield DCR                      6.9  $\Omega$ /1000ft @20°C, Nominal

**F. Other**

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

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