

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

**Part Number: 86406CY**  
**Page 1 of 2 Pages**

**Issue: 10**  
**Issue Date: 7/7/2009**  
**Effective Date: 7/21/2009**

**A. Construction**

**Diameters (In)**

- |                |                                   |       |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 6 X 1 PAIR                        |       |
| 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 A   |       |

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	3	BLACK-GREEN	5	BLACK-BROWN
2	BLACK-WHITE	4	BLACK-BLUE	6	BLACK-YELLOW

- |                     |  |                |
|---------------------|--|----------------|
| c) Pair             | 2/Cond Cabled Together   |                |
| (1) Twists:         | 12.0 Twists/foot (min)   |                |
| 2) Cable Assembly   | 6 Components Cabled  |                |
| a) Twists:          | 6.0 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) Braid            | TC, 85% Coverage, Min.   |                |
| 4) Jacket           | 0.040" Wall, Nom., PVC   | 0.293+/- 0.017 |
| a) Color(s)         | SLATE  |                |
| b) Jacket Separator | Tissue Tape, 25% Overlap, Min.   |                |
| c) Print            | ALPHA WIRE-* P/N 86406CY 6PR 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> |                |

\* = 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: 10X Cable Diameter(static), 15X Cable Diameter(dynamic)
- 3) Pull Tension: 24 Lbs, Maximum
- 4) Sunlight Resistance: Yes

**E. Electrical Properties**

(For Engineering purposes only)

- 1) Voltage Rating: 300 V<sub>RMS</sub>
- 2) Mutual Capacitance: 19.7 pf/ft @1 kHz, Nominal
- 3) Ground Capacitance: 35 pf/ft @1 kHz, Nominal

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- 4) Characteristic Impedance      97  $\Omega$
- 5) Inductance                      0.22  $\mu$ H/ft, Nominal
- 6) Conductor DCR                67  $\Omega$ /1000ft @20°C, Nominal
- 7) OA Shield DCR                3.5  $\Omega$ /1000ft @20°C, Nominal

**F. Other**

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

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