

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

**Part Number: 86408CY**  
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**Issue: 10**  
**Issue Date: 7/7/2009**  
**Effective Date: 7/21/2009**

**A. Construction**

**Diameters (In)**

- 1) Component 1                      8 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	4	BLACK-BLUE	7	BLACK-ORANGE
2	BLACK-WHITE	5	BLACK-BROWN	8	RED-GREEN
3	BLACK-GREEN	6	BLACK-YELLOW		

- c) Pair                              2/Cond Cabled Together
- (1) Twists:                    12.0 Twists/foot (min)
- 2) Cable Assembly                    8 Components Cabled
- a) Twists:                        4.8 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                      0.331+/- 0.019
- a) Color(s)                        SLATE
- b) Jacket Separator            Tissue Tape, 25% Overlap, Min.
- c) Print                            ALPHA WIRE-\* P/N 86408CY 8PR 28 AWG

XTRAGUARD CONTINUOUS FLEX DATA CABLE  
(UL) 105C TYPE CM --- C(UL) CMG OR AWM 2661  
105C 300V --- LLXXXXXX CSA AWM I/II A/B FT4 105C  
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                      31 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

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- 3) Ground Capacitance 35 pf/ft @1 kHz, Nominal
- 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 2.8  $\Omega$ /1000ft @20°C, Nominal

**F. Other**

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

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