

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

**Part Number: 86714CY**  
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**Issue: 10**  
**Issue Date: 7/7/2009**  
**Effective Date: 7/21/2009**

**A. Construction**

**Diameters (In)**

- 1) Component 1 14 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 Company Color Code A

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	6	BLACK-YELLOW	11	RED-YELLOW
2	BLACK-WHITE	7	BLACK-ORANGE	12	RED-BROWN
3	BLACK-GREEN	8	RED-GREEN	13	RED-ORANGE
4	BLACK-BLUE	9	RED-WHITE	14	GREEN-BLUE
5	BLACK-BROWN	10	RED-BLUE		

- c) Pair 2/Cond Cabled Together
- (1) Twists: 9.6 Twists/foot (min)
- 2) Cable Assembly 14 Components Cabled
  - a) Twists: 2.7 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 0.053" Wall, Nom.,PVC 0.527+/- 0.026
  - a) Color(s) SLATE
  - b) Jacket Separator Tissue Tape, 25% Overlap, Min.
  - c) Print ALPHA WIRE-\* P/N 86714CY 14PR 22 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 182 Lbs, Maximum
- 4) Sunlight Resistance Yes

**E. Electrical Properties**

- (For Engineering purposes only)
- 1) Voltage Rating 300 V<sub>RMS</sub>

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- |                             |                                      |
|-----------------------------|--------------------------------------|
| 2) Mutual Capacitance       | 26 pf/ft @1 kHz, Nominal             |
| 3) Ground Capacitance       | 47 pf/ft @1 kHz, Nominal             |
| 4) Characteristic Impedance | 73 $\Omega$                          |
| 5) Inductance               | 0.17 $\mu$ H/ft, Nominal             |
| 6) Conductor DCR            | 15.6 $\Omega$ /1000ft @20°C, Nominal |
| 7) OA Shield DCR            | 1.36 $\Omega$ /1000ft @20°C, Nominal |

**F. Other**

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

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