

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 86614CY
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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 24 (10/34) AWG TC
- b) Insulation 0.010" Wall, Nom. PVC, Semi Rigid 0.044
- (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: 3.2 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 0.463+/- 0.025
- a) Color(s) SLATE
- b) Jacket Separator Tissue Tape, 25% Overlap, Min.
- c) Print ALPHA WIRE-* P/N 86614CY 14PR 24 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_{RMS}
 - b) Overall AWM/STYLE 2661 105°C / 300 V_{RMS}
 - CM 105°C
- 2) CSA International AWM I/II A/B 105°C / 300 V_{RMS}
- 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 98 Lbs, Maximum
- 4) Sunlight Resistance Yes

E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating 300 V_{RMS}

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|-----------------------------|--------------------------------------|
| 2) Mutual Capacitance | 23.1 pf/ft @1 kHz, Nominal |
| 3) Ground Capacitance | 42 pf/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 82 Ω |
| 5) Inductance | 0.19 μ H/ft, Nominal |
| 6) Conductor DCR | 30 Ω /1000ft @20°C, Nominal |
| 7) OA Shield DCR | 2.25 Ω /1000ft @20°C, Nominal |

F. Other

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

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