

ALPHA WIRE COMPANY

CUSTOMER PRODUCT SPECIFICATION

Part Number: 86710CY
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Issue: 10
Issue Date: 7/7/2009
Effective Date: 7/21/2009

A. Construction

Diameters (In)

- 1) Component 1 10 X 1 PAIR
 - a) Conductor 22 (19/34) AWG TC
 - b) Insulation 0.010" Wall, Nom. PVC, Semi Rigid
 - (1) Color Code Alpha Wire Company Color Code A

0.052

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

- c) Pair 2/Cond Cabled Together
 - (1) Twists: 9.6 Twists/foot (min)
- 2) Cable Assembly 10 Components Cabled
 - a) Twists: 2.8 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 0.053" Wall, Nom., PVC
 - a) Color(s) SLATE
 - b) Jacket Separator Tissue Tape, 25% Overlap, Min.
 - c) Print ALPHA WIRE-* P/N 86710CY 10PR 22 AWG

0.497+/- 0.025

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}
- 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 130 Lbs, Maximum
- 4) Sunlight Resistance Yes

E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating 300 V_{RMS}
- 2) Mutual Capacitance 26 pf/ft @1 kHz, Nominal

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|-----------------------------|--------------------------------------|
| 3) Ground Capacitance | 47 pf/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 73 Ω |
| 5) Inductance | 0.17 μ H/ft, Nominal |
| 6) Conductor DCR | 15.6 Ω /1000ft @20°C, Nominal |
| 7) OA Shield DCR | 2.4 Ω /1000ft @20°C, Nominal |

F. Other

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

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