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

Part Number: 86703CY 10 Issue: Page 1 of 2 Pages 7/7/2009 **Issue Date: Effective Date:** 7/21/2009

A. Construction Diameters (In)

1) Component 1 3 X 1 PAIR

22 (19/34) AWG TC Conductor

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 | 2    | BLACK-WHITE | 3    | BLACK-GREEN |

2/Cond Cabled Together c) Pair 9.6 Twists/foot (min) (1) Twists: 2) Cable Assembly 3 Components Cabled a) Twists: 6.0 Twists/foot (min)

Nonwoven Polyester Tape, 25% Overlap, Min. Core Wrap b) Shield: Flex Alum/Mylar Tape, 25% Overlap, Min.

Foil Direction Foil Facing Out a) b) Drain Wire 26 (7/34) AWG TC Braid TC,85% Coverage, Min. C)

Jacket 0.040" Wall, Nom., PVC 0.301+/- 0.014

SLATE a) Color(s)

**Jacket Separator** Tissue Tape, 25% Overlap, Min. b)

ALPHA WIRE-\* P/N 86703CY 3PR 22 AWG C) Print

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

Component 1 AWM/STYLE 10002 105°C / 300 V<sub>RMS</sub> a) b) Overall AWM/STYLE 2661 105°C / 300 V<sub>RMS</sub> CM

105°C

CSA International AWM I/II A/B 105°C / 300 V<sub>RMS</sub>

C(UL) TYPE CMG

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)

Bend Radius 10X Cable Diameter(static), 15X Cable Diameter(dynamic) 2)

3) **Pull Tension** 43 Lbs, Maximum

4) Sunlight Resistance Yes

E. Electrical Properties (For Engineering purposes only)

1) Voltage Rating  $300 V_{RMS}$ 

Mutual Capacitance 29 pf/ft @1 kHz, Nominal 2) **Ground Capacitance** 52 pf/ft @1 kHz, Nominal

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Part Number: 86703CY Issue: 10

Page 2 of 2 Pages 7/7/2009 **Issue Date: Effective Date:** 7/21/2009

4) Characteristic Impedance

67 Ω 0.17 µH/ft, Nominal 5) Inductance

6) Conductor DCR 15.6 Ω/1000ft @20°C, Nominal 3.6 Ω/1000ft @20°C, Nominal 7) OA Shield DCR

Other

1) Packaging

- a) 1000 FT
- 500 FT b)
- 100 FT

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