

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

**Part Number: 86604CY**  
**Page 1 of 2 Pages**

**Issue: 10**  
**Issue Date: 7/7/2009**  
**Effective Date: 7/21/2009**

**A. Construction**

**Diameters (In)**

- 1) Component 1 4 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	3	BLACK-GREEN		
2	BLACK-WHITE	4	BLACK-BLUE		

- c) Pair 2/Cond Cabled Together
- (1) Twists: 9.6 Twists/foot (min)
- 2) Cable Assembly 4 Components Cabled
- a) Twists: 6.0 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 0.292+/- 0.015
- a) Color(s) SLATE
- b) Jacket Separator Tissue Tape, 25% Overlap, Min.
- c) Print ALPHA WIRE-\* P/N 86604CY 4PR 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<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 32 Lbs, Maximum
- 4) Sunlight Resistance Yes

**E. Electrical Properties (For Engineering purposes only)**

- 1) Voltage Rating 300 V<sub>RMS</sub>
- 2) Mutual Capacitance 25 pf/ft @1 kHz, Nominal
- 3) Ground Capacitance 45 pf/ft @1 kHz, Nominal

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability. Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

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

**Part Number: 86604CY**  
**Page 2 of 2 Pages**

**Issue: 10**  
**Issue Date: 7/7/2009**  
**Effective Date: 7/21/2009**

- 4) Characteristic Impedance 76  $\Omega$
- 5) Inductance 0.19  $\mu$ H/ft, Nominal
- 6) Conductor DCR 29  $\Omega$ /1000ft @20°C, Nominal
- 7) OA Shield DCR 3.5  $\Omega$ /1000ft @20°C, Nominal

**F. Other**

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

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.