

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

**Part Number: 86003**  
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**Issue: 3**  
**Issue Date: 1/29/2008**  
**Effective Date: 3/1/2008**

**A. Construction**

**Diameters**

- |                |                                   |       |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 3 X 1 COND                        |       |
| a) Conductor   | 28 (7/36) AWG TC                  |       |
| b) Insulation  | 0.010" Wall, Nom. PVC, Semi Rigid | 0.035 |
| (1) Color Code | Alpha Wire Color Code D           |       |

Cond	Color	Cond	Color
1	BLACK	2	RED
3	WHITE		

- |                   |  |                |
|-------------------|--|----------------|
| 2) Cable Assembly | 3 Components Cabled                        |                |
| a) Twists:        | 16.0 Twists/foot (min)                     |                |
| b) Core Wrap      | Nonwoven Polyester Tape, 25% Overlap, Min. |                |
| 3) Jacket         | 0.040" Wall, Nom.,PVC                      | 0.160+/- 0.010 |
| a) Color(s)       | GRAY                                       |                |
| b) Print          | ALPHA WIRE-* P/N 86003 3C 28 AWG           |                |

XTRAGUARD CONTINUOUS FLEX DATA CABLE XTREME  
PERFORMANCE FOR XTREME ENVIRONMENTS -  
(UL) 105C TYPE CM OR AWM 2661 105C 300V ---  
LLXXXXXX CSA 105C TYPE CMG OR AWM IA/B IIA/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/STYLE10002   | 105°C / 300V |
| b) Overall                        | AWM/STYLE2661  | 105°C / 300V |
|                                   | CM   | 105°C        |
| 2) CSA International              | AWM-I-A/B-II-A/B   | 105°C / 300V |
|                                   | CMG  | 105°C        |
|                                   | FT4  |              |
| 3) 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. |              |
| 4) California Proposition 65:     | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.   |              |
| 5) CE:                            | LVD 73/23/EEC Amendment 93/68/EEC  |              |

**C. Physical & Mechanical Properties**

- |                        |   |
|------------------------|---|
| 1) Temperature Range   | -10 to 105°C(static), +5 to 105°C (dynamic)           |
| 2) Bend Radius         | 8X Cable Diameter(static), 8X Cable Diameter(dynamic) |
| 3) Pull Tension        | 4.1 Lbs, Maximum                                      |
| 4) Sunlight Resistance | Yes   |

**D. Electrical Properties**

(For Engineering purposes only)

- |                   |   |
|-------------------|---|
| 1) Voltage Rating | 300 V <sub>RMS</sub>                              |
| 2) Capacitance    | 18.5 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance     | 0.22 µH/ft, Nominal                               |
| 4) Conductor DCR  | 66 Ω/1000ft @20°C, Nominal                        |

**E. Other**

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

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