

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

**Part Number: 5331C**  
**Page 1 of 1 Pages**

**Issue: 10**  
**Issue Date: 1/29/2008**  
**Effective Date: 3/1/2008**

**A. Construction**

**Diameters (In)**

- |                |                                   |       |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 7 X 1 PAIR                        |       |
| a) Conductor   | 24 (7/32) AWG TC                  |       |
| b) Insulation  | 0.010" Wall, Nom. PVC, Semi Rigid | 0.044 |
| (1) Color Code | Alpha Wire Company Color Code B   |       |

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

- |                   |   |                    |
|-------------------|---|--------------------|
| c) Pair           | 2/Cond Cabled Together  |                    |
| (1) Twists:       | 9.6 Twists/foot (min)   |                    |
| 2) Cable Assembly | 7 Components Cabled   |                    |
| a) Twists:        | 4.8 Twists/foot (min)   |                    |
| b) Core Wrap      | Nonwoven Polyester Tape, 25% Overlap, Min.                        |                    |
| 3) Shield:        | A/P/A Tape, 25% Overlap, Min.                                     |                    |
| a) Drain Wire     | 24 (7/32) AWG TC  |                    |
| b) Braid          | TC, 70% Coverage, Min.  |                    |
| 4) Jacket         | 0.063" Wall, Nom., PVC  | 0.376 (0.396 Max.) |
| a) Color(s)       | Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White |                    |
| b) Ripcord        | 1 End 810 Denier Nylon  |                    |
| c) Print          | ALPHA WIRE-* P/N 5331C 7PR 24 AWG                                 |                    |

XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME ENVIRONMENTS - SHIELDED 105C (UL) TYPE CM OR AWM 2343 VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4  
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 2343  | 80°C                         |
|                                   | CM              | 105°C                        |
|                                   | VW-1            |                              |
| 2) CSA International              | 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   | -20 to 105°C       |
| 2) Bend Radius         | 10X Cable Diameter |
| 3) Pull Tension        | 58 Lbs, Maximum    |
| 4) Sunlight Resistance | Yes                |

**D. Electrical Properties**

(For Engineering purposes only)

- |                       |                            |
|-----------------------|----------------------------|
| 1) Voltage Rating     | 300 V <sub>RMS</sub>       |
| 2) Mutual Capacitance | 23.1 pF/ft @1 kHz, Nominal |

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- |                             |                                     |
|-----------------------------|-------------------------------------|
| 3) Ground Capacitance       | 42 pf/ft @1 kHz, Nominal            |
| 4) Characteristic Impedance | 82 $\Omega$                         |
| 5) Inductance               | 0.19 $\mu$ H/ft, Nominal            |
| 6) Conductor DCR            | 26 $\Omega$ /1000ft @20°C, Nominal  |
| 7) OA Shield DCR            | 2.9 $\Omega$ /1000ft @20°C, Nominal |

**E. Other**

- 1) Packaging
  - a) 1000 FT
  - b) 500 FT
  - c) 100 FT
  - d) Bulk(Made-to-order)

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