

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

**Part Number: 5271C**  
**Page 1 of 1 Pages**

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

**A. Construction**

**Diameters (In)**

- |                |                                   |       |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 1 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				

- |               |   |                    |
|---------------|---|--------------------|
| c) Cabling    | 2 COND Cabled   |                    |
| (1) Twists:   | 12.0 Twists/foot (min)  |                    |
| (2) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min.  |                    |
| 2) Shield:    | A/P/A Tape, 25% Overlap, Min.   |                    |
| a) Drain Wire | 24 (7/32) AWG TC  |                    |
| b) Braid      | TC, 70% Coverage, Min.  |                    |
| 3) Jacket     | 0.032" Wall, Nom., PVC  | 0.184 (0.194 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 5271C 1PR 24 AWG<br>XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME<br>ENVIRONMENTS - SHIELDED 105C (UL) TYPE CM OR AWM<br>2464 VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4<br>CE ROHS <SEQ FOOTAGE><br>* = 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 VRMS |
| b) Overall                        | AWM/STYLE 2464   | 80°C / 300 VRMS  |
|                                   | 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        | 12.5 Lbs, Maximum  |
| 4) Sunlight Resistance | Yes                |

**D. Electrical Properties**

(For Engineering purposes only)

- |                             |                          |
|-----------------------------|--------------------------|
| 1) Voltage Rating           | 300 VRMS                 |
| 2) Mutual Capacitance       | 35 pf/ft @1 kHz, Nominal |
| 3) Ground Capacitance       | 63 pf/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 54 Ω                     |
| 5) Inductance               | 0.19 μH/ft, Nominal      |

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- 6) Conductor DCR                      25  $\Omega$ /1000ft @20°C, Nominal
- 7) OA Shield DCR                      6.5  $\Omega$ /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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