

# ALPHA WIRE COMPANY

## CUSTOMER PRODUCT SPECIFICATION

**Part Number: 5118C**  
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**Issue: 10**  
**Issue Date: 1/29/2008**  
**Effective Date: 3/1/2008**

### A. Construction

### Diameters (In)

- |                |                                   |       |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 8 X 1 COND                        |       |
| 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 E   |       |
- 
- | Cond | Color | Cond | Color  | Cond | Color  |
|------|-------|------|--------|------|--------|
| 1    | BLACK | 4    | ORANGE | 7    | BLUE   |
| 2    | BROWN | 5    | YELLOW | 8    | VIOLET |
| 3    | RED   | 6    | GREEN  |      |        |
- 
- |                   |   |                    |
|-------------------|---|--------------------|
| 2) Cable Assembly | 8 Components Cabled   |                    |
| a) Twists:        | 6.9 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         | 0.032" Wall, Nom., PVC  | 0.243 (0.256 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 5118C 8C 24 AWG                                  |                    |

XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME  
ENVIRONMENTS - SHIELDED 105C (UL) TYPE CM OR AWM  
2464 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 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        | 35 Lbs, Maximum    |
| 4) Sunlight Resistance | Yes                |

### D. Electrical Properties

- |                       |   |
|-----------------------|---|
|                       | (For Engineering purposes only)                 |
| 1) Voltage Rating     | 300 VRMS  |
| 2) Capacitance        | 32 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 58 pf/ft @1 kHz, Nominal                        |
| 4) Inductance         | 0.19 µH/ft, Nominal                             |

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- 5) Conductor DCR 26  $\Omega$ /1000ft @20°C, Nominal
- 6) OA Shield DCR 4.3  $\Omega$ /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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