

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

**Part Number: 5100/25C**  
**Page 1 of 1 Pages**

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

**A. Construction**

**Diameters (In)**

- 1) Component 1 25 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	10	WHITE	19	WHITE/SLATE
2	BROWN	11	WHITE/BLACK	20	WHITE/BLACK/BROWN
3	RED	12	WHITE/BROWN	21	WHITE/BLACK/RED
4	ORANGE	13	WHITE/RED	22	WHITE/BLACK/ORANGE
5	YELLOW	14	WHITE/ORANGE	23	WHITE/BLACK/YELLOW
6	GREEN	15	WHITE/YELLOW	24	WHITE/BLACK/GREEN
7	BLUE	16	WHITE/GREEN	25	WHITE/BLACK/BLUE
8	VIOLET	17	WHITE/BLUE		
9	SLATE	18	WHITE/VIOLET		

- 2) Cable Assembly 25 Components Cabled
- a) Twists: 4.0 Twists/foot (min)
- b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.
- 3) Shield: Alum/Mylar Tape, 25% Overlap, Min.
- a) Foil Direction Foil Facing In
- b) Drain Wire 24 (7/32) AWG TC
- 4) Jacket 0.032" Wall, Nom.,PVC 0.336 (0.355 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 5100/25C 25C 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 91 Lbs, Maximum
- 4) Sunlight Resistance Yes

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**D. Electrical Properties**

(For Engineering purposes only)

- |                       |   |
|-----------------------|---|
| 1) Voltage Rating     | 300 V <sub>RMS</sub>                            |
| 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                             |
| 5) Conductor DCR      | 26 Ω/1000ft @20°C, Nominal                      |
| 6) OA Shield DCR      | 13.5 Ω/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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