

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

**Part Number: 5100/30C**  
**Page 1 of 1 Pages**

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

**A. Construction**

**Diameters (In)**

- 1) Component 1 30 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	11	WHITE/BLACK	21	WHITE/BLACK/RED
2	BROWN	12	WHITE/BROWN	22	WHITE/BLACK/ORANGE
3	RED	13	WHITE/RED	23	WHITE/BLACK/YELLOW
4	ORANGE	14	WHITE/ORANGE	24	WHITE/BLACK/GREEN
5	YELLOW	15	WHITE/YELLOW	25	WHITE/BLACK/BLUE
6	GREEN	16	WHITE/GREEN	26	WHITE/BLACK/VIOLET
7	BLUE	17	WHITE/BLUE	27	WHITE/BLACK/SLATE
8	VIOLET	18	WHITE/VIOLET	28	WHITE/BROWN/RED
9	SLATE	19	WHITE/SLATE	29	WHITE/BROWN/ORANGE
10	WHITE	20	WHITE/BLACK/BROWN	30	WHITE/BROWN/YELLOW

- 2) Cable Assembly 30 Components Cabled  
 a) Twists: 3.7 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 0.354 (0.374 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 5100/30C 30C 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 109 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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