

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

**Part Number: 5110C**  
**Page 1 of 1 Pages**

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

**A. Construction**

**Diameters (In)**

- 1) Component 1 10 X 1 COND
- a) Conductor 22 (7/30) AWG TC
- b) Insulation 0.010" Wall, Nom. PVC, Semi Rigid 0.050
- (1) Color Code Alpha Wire Company Color Code E

Cond	Color	Cond	Color	Cond	Color
1	BLACK	5	YELLOW	9	SLATE
2	BROWN	6	GREEN	10	WHITE
3	RED	7	BLUE		
4	ORANGE	8	VIOLET		

- 2) Cable Assembly 10 Components Cabled
- a) Twists: 5.3 Twists/foot (min)
- b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.
- 3) Shield: A/P/A Tape, 25% Overlap, Min.
- a) Drain Wire 22 (7/30) AWG TC
- b) Braid TC, 70% Coverage, Min.
- 4) Jacket 0.032" Wall, Nom., PVC 0.296 (0.311 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 5110C 10C 22 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 65 Lbs, Maximum
- 4) Sunlight Resistance Yes

**D. Electrical Properties**

(For Engineering purposes only)

- 1) Voltage Rating 300 VRMS
- 2) Capacitance 36 pf/ft @1 kHz, Nominal Conductor to Conductor
- 3) Ground Capacitance 65 pf/ft @1 kHz, Nominal

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- |                  |                                      |
|------------------|--------------------------------------|
| 4) Inductance    | 0.18 $\mu$ H/ft, Nominal             |
| 5) Conductor DCR | 16.6 $\Omega$ /1000ft @20°C, Nominal |
| 6) OA Shield DCR | 3.1 $\Omega$ /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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