

# ALPHA WIRE COMPANY

## CUSTOMER PRODUCT SPECIFICATION

**Part Number: 5110/80C**  
**Page 1 of 1 Pages**

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

### A. Construction

### Diameters (In)

- 1) Component 1 80 X 1 COND
- a) Conductor 22 (7/30) AWG TC
- b) Insulation 0.010" Wall, Nom. PVC, Semi Rigid
- (1) Color Code Alpha Wire Company Color Code E

0.050

Cond	Color	Cond	Color	Cond	Color
1	BLACK	28	WHITE/BROWN/RED	55	WHITE/VIOLET/SLATE
2	BROWN	29	WHITE/BROWN/ORANGE	56	WHITE/BLACK/BROWN/RED
3	RED	30	WHITE/BROWN/YELLOW	57	WHITE/BLACK/BROWN/ORANGE
4	ORANGE	31	WHITE/BROWN/GREEN	58	WHITE/BLACK/BROWN/YELLOW
5	YELLOW	32	WHITE/BROWN/BLUE	59	WHITE/BLACK/BROWN/GREEN
6	GREEN	33	WHITE/BROWN/VIOLET	60	WHITE/BLACK/BROWN/BLUE
7	BLUE	34	WHITE/BROWN/SLATE	61	WHITE/BLACK/BROWN/VIOLET
8	VIOLET	35	WHITE/RED/ORANGE	62	WHITE/BLACK/BROWN/SLATE
9	SLATE	36	WHITE/RED/YELLOW	63	WHITE/BLACK/RED/YELLOW
10	WHITE	37	WHITE/RED/GREEN	64	WHITE/BLACK/RED/GREEN
11	WHITE/BLACK	38	WHITE/RED/BLUE	65	WHITE/BLACK/RED/BLUE
12	WHITE/BROWN	39	WHITE/RED/VIOLET	66	WHITE/BLACK/RED/VIOLET
13	WHITE/RED	40	WHITE/RED/SLATE	67	WHITE/BLACK/RED/SLATE
14	WHITE/ORANGE	41	WHITE/ORANGE/YELLOW	68	WHITE/BLACK/ORANGE/YELLOW
15	WHITE/YELLOW	42	WHITE/ORANGE/GREEN	69	WHITE/BLACK/ORANGE/GREEN
16	WHITE/GREEN	43	WHITE/ORANGE/BLUE	70	WHITE/BLACK/ORANGE/BLUE
17	WHITE/BLUE	44	WHITE/ORANGE/VIOLET	71	WHITE/BLACK/ORANGE/VIOLET
18	WHITE/VIOLET	45	WHITE/ORANGE/SLATE	72	WHITE/BLACK/ORANGE/SLATE
19	WHITE/SLATE	46	WHITE/YELLOW/GREEN	73	WHITE/BLACK/YELLOW/GREEN
20	WHITE/BLACK/BROWN	47	WHITE/YELLOW/BLUE	74	WHITE/BLACK/YELLOW/BLUE
21	WHITE/BLACK/RED	48	WHITE/YELLOW/VIOLET	75	WHITE/BLACK/YELLOW/VIOLET
22	WHITE/BLACK/ORANGE	49	WHITE/YELLOW/SLATE	76	WHITE/BLACK/YELLOW/SLATE
23	WHITE/BLACK/YELLOW	50	WHITE/GREEN/BLUE	77	WHITE/BLACK/GREEN/BLUE
24	WHITE/BLACK/GREEN	51	WHITE/GREEN/VIOLET	78	WHITE/BLACK/GREEN/VIOLET
25	WHITE/BLACK/BLUE	52	WHITE/GREEN/SLATE	79	WHITE/BLACK/GREEN/SLATE
26	WHITE/BLACK/VIOLET	53	WHITE/BLUE/VIOLET	80	WHITE/BLACK/BLUE/VIOLET
27	WHITE/BLACK/SLATE	54	WHITE/BLUE/SLATE		

- 2) Cable Assembly 80 Components Cabled
- a) Twists: 1.9 Twists/foot (min)
- b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.
- 3) Shield: A/P/A Tape, 25% Overlap, Min.
- a) Drain Wire 22 (7/30) AWG TC
- b) Braid TC, 70% Coverage, Min.
- 4) Jacket 0.053" Wall, Nom., PVC 0.665 (0.698 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 5110/80C 80C 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 V<sub>RMS</sub>
  - b) Overall AWM/STYLE 2464 80°C / 300 V<sub>RMS</sub>
  - CM 105°C
  - VW-1
- 2) CSA International CMG 105°C
- FT4
- 3) EU Directive 2002/95/EC(RoHS):

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

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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 459 Lbs, Maximum  
4) Sunlight Resistance Yes

**D. Electrical Properties**

- (For Engineering purposes only)
- 1) Voltage Rating 300 V<sub>RMS</sub>  
2) Capacitance 36 pF/ft @1 kHz, Nominal Conductor to Conductor  
3) Ground Capacitance 65 pF/ft @1 kHz, Nominal  
4) Inductance 0.18 µH/ft, Nominal  
5) Conductor DCR 16.6 Ω/1000ft @20°C, Nominal  
6) OA Shield DCR 1.2 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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