

**ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 5120/30C
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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: 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 0.378 (0.399 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 5120/30C 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 116 Lbs, Maximum
- 4) Sunlight Resistance Yes

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D. Electrical Properties

(For Engineering purposes only)

- | | |
|-----------------------|---|
| 1) Voltage Rating | 300 V _{RMS} |
| 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 | 2.31 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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