

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

**Part Number: 5160/60C**  
**Page 1 of 2 Pages**

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

**A. Construction**

**Diameters**

- |                |                         |       |
|----------------|-------------------------|-------|
| 1) Component 1 | 60 X 1 COND             |       |
| a) Conductor   | 20 (7/28) AWG TC        |       |
| b) Insulation  | 0.016" Wall, Nom. PVC   | 0.070 |
| (1) Color Code | Alpha Wire Color Code D |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	21	WHITE/BROWN	41	WHITE/GREEN/RED
2	RED	22	WHITE/ORANGE	42	WHITE/GREEN/GREEN
3	WHITE	23	WHITE/GRAY	43	WHITE/GREEN/BLUE
4	GREEN	24	WHITE/VIOLET	44	WHITE/GREEN/BROWN
5	ORANGE	25	WHITE/BLACK/RED	45	WHITE/GREEN/VIOLET
6	BLUE	26	WHITE/BLACK/GREEN	46	WHITE/BLUE/BLACK
7	BROWN	27	WHITE/BLACK/YELLOW	47	WHITE/BLUE/RED
8	YELLOW	28	WHITE/BLACK/BLUE	48	WHITE/BLUE/GREEN
9	VIOLET	29	WHITE/BLACK/BROWN	49	WHITE/BLUE/BLUE
10	GRAY	30	WHITE/BLACK/ORANGE	50	WHITE/BLUE/BROWN
11	PINK	31	WHITE/BLACK/GRAY	51	WHITE/BLUE/VIOLET
12	TAN	32	WHITE/BLACK/VIOLET	52	WHITE/BROWN/BLACK
13	RED/GREEN	33	WHITE/BLACK/BLACK	53	WHITE/BROWN/RED
14	RED/YELLOW	34	WHITE/RED/BLACK	54	WHITE/BROWN/GREEN
15	RED/BLACK	35	WHITE/RED/RED	55	WHITE/BROWN/BLUE
16	WHITE/BLACK	36	WHITE/RED/GREEN	56	WHITE/BROWN/BROWN
17	WHITE/RED	37	WHITE/RED/BLUE	57	WHITE/BROWN/VIOLET
18	WHITE/GREEN	38	WHITE/RED/BROWN	58	WHITE/VIOLET/RED
19	WHITE/YELLOW	39	WHITE/RED/VIOLET	59	WHITE/VIOLET/GREEN
20	WHITE/BLUE	40	WHITE/GREEN/BLACK	60	WHITE/VIOLET/BLUE

- |                   |  |                    |
|-------------------|--|--------------------|
| 2) Cable Assembly | 60 Components Cabled   |                    |
| a) Twists:        | 1.6 Twists/foot (min)  |                    |
| b) Core Wrap      | Nonwoven Polyester Tape, 25% Overlap, Min.                       |                    |
| 3) Shield:        | A/P/A Tape, 25% Overlap, Min.                                    |                    |
| a) Drain Wire     | 20 (7/28) AWG TC   |                    |
| b) Braid          | TC, 70% Coverage, Min.   |                    |
| 4) Jacket         | 0.053" Wall, Nom., PVC   | 0.774 (0.806 Max.) |
| a) Color(s)       | Gray, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White |                    |
| b) Ripcord        | 1 End 810 Denier Nylon   |                    |
| c) Print          | ALPHA WIRE-* P/N 5160/60C 60C 20 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/STYLE1569 | 105°C / 300V |
| b) Overall           | AWM/STYLE2464 | 80°C / 300V  |
|                      | 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

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**C. Physical & Mechanical Properties**

- 1) Temperature Range -20 to 105°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 547 Lbs, Maximum
- 4) Sunlight Resistance Yes

**D. Electrical Properties**

(For Engineering purposes only)

- 1) Voltage Rating 300 V<sub>RMS</sub>
- 2) Capacitance 44 pf/ft @1 kHz, Nominal Conductor to Conductor
- 3) Ground Capacitance 79 pf/ft @1 kHz, Nominal
- 4) Inductance 0.19 µH/ft, Nominal
- 5) Conductor DCR 10.4 Ω/1000ft @20°C, Nominal
- 6) OA Shield DCR 1.26 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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