

# ALPHA WIRE COMPANY

## CUSTOMER PRODUCT SPECIFICATION

**Part Number: 5070/50C**  
**Page 1 of 2 Pages**

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

### A. Construction

### Diameters

- |                |                         |       |
|----------------|-------------------------|-------|
| 1) Component 1 | 50 X 1 COND             |       |
| a) Conductor   | 18 (16/30) AWG TC       |       |
| b) Insulation  | 0.016" Wall, Nom. PVC   | 0.079 |
| (1) Color Code | Alpha Wire Color Code D |       |

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

- |                   |                                                                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2) Cable Assembly | 50 Components Cabled                                                                                                                                                                                  |
| a) Twists:        | 1.5 Twists/foot (min)                                                                                                                                                                                 |
| b) Core Wrap      | Nonwoven Polyester Tape, 25% Overlap, Min.                                                                                                                                                            |
| 3) Jacket         | 0.053" Wall, Nom., PVC                                                                                                                                                                                |
| 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 5070/50C 50C 18 AWG<br>XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME<br>ENVIRONMENTS - 105C (UL) TYPE CM OR AWM 2464 VW-1<br>--- LLXXXXXX CSA 105C TYPE CMG FT4 CE<br>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 |
| b) Overall                        | AWM/STYLE2464 |
|                                   | CM            |
|                                   | VW-1          |
| 2) CSA International              | CMG           |
|                                   | 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        | 628 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 33 pf/ft @1 kHz, Nominal Conductor to Conductor
  - 3) Inductance 0.18  $\mu$ H/ft, Nominal
  - 4) Conductor DCR 7.3  $\Omega$ /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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