

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

**Part Number: 5170/25C**  
**Page 1 of 2 Pages**

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

**A. Construction**

**Diameters**

- |                |                         |       |
|----------------|-------------------------|-------|
| 1) Component 1 | 25 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	10	GRAY	19	WHITE/YELLOW
2	RED	11	PINK	20	WHITE/BLUE
3	WHITE	12	TAN	21	WHITE/BROWN
4	GREEN	13	RED/GREEN	22	WHITE/ORANGE
5	ORANGE	14	RED/YELLOW	23	WHITE/GRAY
6	BLUE	15	RED/BLACK	24	WHITE/VIOLET
7	BROWN	16	WHITE/BLACK	25	WHITE/BLACK/RED
8	YELLOW	17	WHITE/RED		
9	VIOLET	18	WHITE/GREEN		

- |                   |  |                    |
|-------------------|--|--------------------|
| 2) Cable Assembly | 25 Components Cabled   |                    |
| a) Twists:        | 2.2 Twists/foot (min)  |                    |
| b) Core Wrap      | Nonwoven Polyester Tape, 25% Overlap, Min.                       |                    |
| 3) Shield:        | A/P/A Tape, 25% Overlap, Min.                                    |                    |
| a) Drain Wire     | 18 (16/30) AWG TC  |                    |
| b) Braid          | TC, 70% Coverage, Min.   |                    |
| 4) Jacket         | 0.053" Wall, Nom., PVC   | 0.612 (0.636 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 5170/25C 25C 18 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  |

**C. Physical & Mechanical Properties**

- |                        |                    |
|------------------------|--------------------|
| 1) Temperature Range   | -20 to 105°C       |
| 2) Bend Radius         | 10X Cable Diameter |
| 3) Pull Tension        | 336 Lbs, Maximum   |
| 4) Sunlight Resistance | Yes                |

**D. Electrical Properties**

- |                   |   |
|-------------------|---|
|                   | (For Engineering purposes only)                 |
| 1) Voltage Rating | 300 V <sub>RMS</sub>                            |
| 2) Capacitance    | 51 pf/ft @1 kHz, Nominal Conductor to Conductor |

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- |                       |                                      |
|-----------------------|--------------------------------------|
| 3) Ground Capacitance | 92 pf/ft @1 kHz, Nominal             |
| 4) Inductance         | 0.18 $\mu$ H/ft, Nominal             |
| 5) Conductor DCR      | 7.3 $\Omega$ /1000ft @20°C, Nominal  |
| 6) OA Shield DCR      | 1.66 $\Omega$ /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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