

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

**Part Number: 5160/15C**  
**Page 1 of 2 Pages**

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

**A. Construction**

**Diameters**

- |    |                |                         |       |
|----|----------------|-------------------------|-------|
| 1) | Component 1    | 15 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	6	BLUE	11	PINK
2	RED	7	BROWN	12	TAN
3	WHITE	8	YELLOW	13	RED/GREEN
4	GREEN	9	VIOLET	14	RED/YELLOW
5	ORANGE	10	GRAY	15	RED/BLACK

- |    |                |  |                    |
|----|----------------|--|--------------------|
| 2) | Cable Assembly | 15 Components Cabled   |                    |
|    | a) Twists:     | 3.2 Twists/foot (min)  |                    |
|    | b) Core Wrap   | Nonwoven Polyester Tape, 25% Overlap, Min.   |                    |
| 3) | Shield:        | A/P/A Tape, 25% Overlap, Min.  |                    |
|    | a) Drain Wire  | 20 (7/28) AWG TC   |                    |
|    | b) Braid       | TC, 70% Coverage, Min.   |                    |
| 4) | Jacket         | 0.032" Wall, Nom., PVC   | 0.419 (0.436 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 5160/15C 15C 20 AWG<br>XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME<br>ENVIRONMENTS - SHIELDED 105C (UL) TYPE CM OR AWM<br>2464 VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4<br>CE ROHS <SEQ FOOTAGE><br>* = 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        | 146 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      | 10.3 Ω/1000ft @20°C, Nominal                    |  |

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6) OA Shield DCR                      2.2  $\Omega$ /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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