

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

**Part Number: 5139C**  
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**Issue: 10**  
**Issue Date: 1/29/2008**  
**Effective Date: 3/1/2008**

**A. Construction**

**Diameters (In)**

- 1) Component 1 9 X 1 PAIR
  - a) Conductor 18 (16/30) AWG TC
  - b) Insulation 0.016" Wall, Nom. PVC 0.079
  - (1) Color Code Alpha Wire Company Color Code A

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	4	BLACK-BLUE	7	BLACK-ORANGE
2	BLACK-WHITE	5	BLACK-BROWN	8	RED-GREEN
3	BLACK-GREEN	6	BLACK-YELLOW	9	RED-WHITE

- c) Pair 2/Cond Cabled Together
- (1) Twists: 5.3 Twists/foot (min)
- 2) Cable Assembly 9 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 0.611 (0.635 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 5139C 9PR 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/STYLE 1569 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 248 Lbs, Maximum
- 4) Sunlight Resistance Yes

**D. Electrical Properties**

- (For Engineering purposes only)
- 1) Voltage Rating 300 VRMS
- 2) Mutual Capacitance 35 pf/ft @1 kHz, Nominal

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- |                             |                                      |
|-----------------------------|--------------------------------------|
| 3) Ground Capacitance       | 63 pf/ft @1 kHz, Nominal             |
| 4) Characteristic Impedance | 64 $\Omega$                          |
| 5) Inductance               | 0.18 $\mu$ H/ft, Nominal             |
| 6) Conductor DCR            | 7.3 $\Omega$ /1000ft @20°C, Nominal  |
| 7) OA Shield DCR            | 1.69 $\Omega$ /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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