

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

**Part Number: 5133C**  
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**Issue: 10**  
**Issue Date: 1/29/2008**  
**Effective Date: 3/1/2008**

**A. Construction**

**Diameters (In)**

- |    |                |                                 |       |
|----|----------------|---------------------------------|-------|
| 1) | Component 1    | 3 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 | 2    | BLACK-WHITE | 3    | BLACK-GREEN |
- 
- |    |                |   |                    |
|----|----------------|---|--------------------|
| c) | Pair           | 2/Cond Cabled Together  |                    |
|    | (1) Twists:    | 5.3 Twists/foot (min)   |                    |
| 2) | Cable Assembly | 3 Components Cabled   |                    |
|    | a) Twists:     | 3.7 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         | 0.032" Wall, Nom., PVC  | 0.376 (0.391 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 5133C 3PR 18 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/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        | 95 Lbs, Maximum    |
| 4) | Sunlight Resistance | Yes                |

**D. Electrical Properties**

(For Engineering purposes only)

- |    |                    |                          |
|----|--------------------|--------------------------|
| 1) | Voltage Rating     | 300 VRMS                 |
| 2) | Mutual Capacitance | 39 pf/ft @1 kHz, Nominal |
| 3) | Ground Capacitance | 70 pf/ft @1 kHz, Nominal |

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- 4) Characteristic Impedance      58  $\Omega$
- 5) Inductance                      0.18  $\mu$ H/ft, Nominal
- 6) Conductor DCR                7.3  $\Omega$ /1000ft @20°C, Nominal
- 7) OA Shield DCR                1.87  $\Omega$ /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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