

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

**Part Number: 5450/3**  
**Page 1 of 1 Pages**

**Issue: 12**  
**Issue Date: 6/12/2008**  
**Effective Date: 7/1/2008**

**A. Construction**

**Diameters (In)**

- |                |                                 |       |
|----------------|---------------------------------|-------|
| 1) Component 1 | 3 X 1 COND                      |       |
| a) Conductor   | 14 (41/30) AWG TC               |       |
| b) Insulation  | 0.032" Wall, Nom. PVC           | 0.138 |
| (1) Color Code | Alpha Wire Company Color Code E |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	BROWN	3	RED

- |                   |   |                    |
|-------------------|---|--------------------|
| 2) Cable Assembly | 3 Components Cabled   |                    |
| a) Twists:        | 3.4 Twists/foot (min)   |                    |
| b) Core Wrap      | Nonwoven Polyester Tape, 25% Overlap, Min.  |                    |
| 3) Shield:        | Alum/Mylar Tape, 25% Overlap, Min.  |                    |
| a) Foil Direction | Foil Facing In  |                    |
| b) Drain Wire     | 14 (41/30) AWG TC   |                    |
| 4) Jacket         | 0.063" Wall, Nom., PVC  | 0.432 (0.451 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 5450/3 3C 14 AWG<br>XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME<br>ENVIRONMENTS (UL) MTW 600V OR AWM 2501 VW-1 ---<br>LLXXXXXX CSA AWM IIA/B IIA/B 105C 600<br>VOLTS FT4 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 1015   | 105°C / 600 VRMS |
|                                   | MTW  | 90°C / 600 VRMS  |
| b) Overall                        | MTW  | 90°C / 600 VRMS  |
|                                   | AWM/STYLE 2501   | 105°C / 600 VRMS |
|                                   | VW-1   |                  |
| 2) CSA International              |  |                  |
| a) Component 1                    | TEW  | 105°C / 600 VRMS |
| b) Overall                        | AWM I/II A/B   | 105°C / 600 VRMS |
|                                   | 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        | 129 Lbs, Maximum   |
| 4) Sunlight Resistance | Yes                |

**D. Electrical Properties**

- |                                 |   |
|---------------------------------|---|
| (For Engineering purposes only) |   |
| 1) Voltage Rating               | 600 VRMS  |
| 2) Capacitance                  | 46 pf/ft @1 kHz, Nominal Conductor to Conductor |

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- |                       |                                     |
|-----------------------|-------------------------------------|
| 3) Ground Capacitance | 83 pf/ft @1 kHz, Nominal            |
| 4) Inductance         | 0.19 $\mu$ H/ft, Nominal            |
| 5) Conductor DCR      | 2.8 $\Omega$ /1000ft @20°C, Nominal |
| 6) OA Shield DCR      | 2.5 $\Omega$ /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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