

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

**Part Number: 5440/3**  
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**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   | 16 (19/.0117) AWG TC            |       |
|    | b) Insulation  | 0.032" Wall, Nom. PVC           | 0.123 |
|    | (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:        | 4.0 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     | 16 (19/.0117) AWG TC   |                    |
| 4) | Jacket            | 0.063" Wall, Nom.,PVC  | 0.399 (0.418 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 5440/3 3C 16 AWG<br>XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME<br>ENVIRONMENTS (UL) MTW 600V OR AWM 2501 VW-1 ---<br>LLXXXXXX CSA AWM IA/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        | 82 Lbs, Maximum    |  |
| 4) | Sunlight Resistance | Yes                |  |

**D. Electrical Properties**

- |    |                |   |  |
|----|----------------|---|--|
|    |                | (For Engineering purposes only)                 |  |
| 1) | Voltage Rating | 600 VRMS  |  |
| 2) | Capacitance    | 40 pf/ft @1 kHz, Nominal Conductor to Conductor |  |

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- |                       |                                     |
|-----------------------|-------------------------------------|
| 3) Ground Capacitance | 72 pf/ft @1 kHz, Nominal            |
| 4) Inductance         | 0.2 $\mu$ H/ft, Nominal             |
| 5) Conductor DCR      | 4.4 $\Omega$ /1000ft @20°C, Nominal |
| 6) OA Shield DCR      | 3.8 $\Omega$ /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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