

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

**Part Number: 25121**  
**Page 1 of 2 Pages**

**Issue: 13**  
**Issue Date: 12/20/2012**  
**Effective Date: 1/4/2013**

**A. Construction**

**Diameters (In)**

- |                |                                   |       |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 1 X 1 PAIR                        |       |
| a) Conductor   | 22 (7/30) AWG TC                  | 0.030 |
| b) Insulation  | 0.010" Wall, Nom. PVC, Semi Rigid | 0.050 |
| (1) Color Code | Alpha Wire Color Code B           |       |

Pair	Color	Pair	Color	Pair	Color
1	WHITE-BLACK				

- |               |   |                    |
|---------------|---|--------------------|
| c) Cabling    | 2 COND Cabled   |                    |
| (1) Twists:   | 8.0 Twists/foot (min)   |                    |
| (2) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min.                        |                    |
| 2) Shield:    | A/P/A Tape, 25% Overlap, Min.                                     |                    |
| a) Drain Wire | 22 (7/30) AWG TC  |                    |
| b) Braid      | TC, 70% Coverage, Min.  |                    |
| 3) Jacket     | 0.032" Wall, Nom., Polyurethane (TPU)                             | 0.196 (0.206 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 25121  |                    |
|               | XTRAGUARD(R) 2 RU AWM 20668 VW-1 --- LLXXXXXX CSA                 |                    |
|               | AWM I/II A/B 90C 300 VOLTS FT1 CE                                 |                    |
|               | ROHS (SEQ FOOTAGE)  |                    |
|               | * = Factory Code  |                    |

[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

**B. Applicable Specifications**

- |                      |                                     |                              |
|----------------------|-------------------------------------|------------------------------|
| 1) UL                |                                     |                              |
| a) Component 1       | AWM/STYLE 10002                     | 105°C / 300 V <sub>RMS</sub> |
| b) Overall           | AWM/STYLE 20668                     | 90°C / 300 V <sub>RMS</sub>  |
|                      | VW-1                                |                              |
| 2) CSA International | AWM I/II A/B                        | 90°C / 300 V <sub>RMS</sub>  |
|                      | FT1                                 |                              |
| 3) CE:               | EU Low Voltage Directive 2006/95/EC |                              |

**C. Environmental Compliance**

- |                                     |   |
|-------------------------------------|---|
| 1) CE:                              | EU Directive 2011/65/EU(RoHS2):<br>This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for <a href="#">RoHS C of C</a> . |
| 2) REACH Regulation (EC 1907/2006): | This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see <a href="#">Alpha's REACH SVHC Declaration</a> .  |
| 3) California Proposition 65:       | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.  |

**D. Physical & Mechanical Properties**

- |                        |                    |
|------------------------|--------------------|
| 1) Temperature Range   | -30 to 90°C        |
| 2) Bend Radius         | 10X Cable Diameter |
| 3) Pull Tension        | 19.1 Lbs, Maximum  |
| 4) Sunlight Resistance | Yes                |

**E. Electrical Properties** (For Engineering purposes only)

- |                             |                           |
|-----------------------------|---------------------------|
| 1) Voltage Rating           | 300 V <sub>RMS</sub>      |
| 2) Mutual Capacitance       | 39 pf/ft @ 1 kHz, Nominal |
| 3) Ground Capacitance       | 70 pf/ft @ 1 kHz, Nominal |
| 4) Characteristic Impedance | 48 Ω                      |

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- |                  |                                      |
|------------------|--------------------------------------|
| 5) Inductance    | 0.18 $\mu$ H/ft, Nominal             |
| 6) Conductor DCR | 16.2 $\Omega$ /1000ft @20°C, Nominal |
| 7) OA Shield DCR | 4.7 $\Omega$ /1000ft @20°C, Nominal  |

**F. Other**

- |                        |                                     |
|------------------------|-------------------------------------|
| 1) Packaging           | Flange x Traverse x Barrel (inches) |
| a) Bulk(Made-to-order) |                                     |

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