

## ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

**Part Number: 25484**  
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**Issue: 13**  
**Issue Date: 12/20/2012**  
**Effective Date: 1/4/2013**

### A. Construction

#### Diameters (In)

- |    |                |                                   |       |
|----|----------------|-----------------------------------|-------|
| 1) | Component 1    | 4 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	3	WHITE-RED		
2	WHITE-BROWN	4	WHITE-ORANGE		

- |    |                   |   |                    |
|----|-------------------|---|--------------------|
| c) | Pair              | 2/Cond Cabled Together  |                    |
|    | (1) Twists:       | 8.0 Twists/foot (min)   |                    |
| 2) | Cable Assembly    | 4 Components Cabled   |                    |
|    | a) Twists:        | 5.3 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     | 22 (7/30) AWG TC  |                    |
| 4) | Jacket            | 0.032" Wall, Nom., Polyurethane (TPU)                             | 0.271 (0.286 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 25484  |                    |

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):  
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 [RoHS C of C](#).
- 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 [Alpha's REACH SVHC Declaration](#).
- 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 49 Lbs, Maximum
- 4) Sunlight Resistance Yes

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

- 1) Voltage Rating 300 V<sub>RMS</sub>
- 2) Mutual Capacitance 27 pf/ft @1 kHz, Nominal

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- |                             |                                      |
|-----------------------------|--------------------------------------|
| 3) Ground Capacitance       | 49 pf/ft @1 kHz, Nominal             |
| 4) Characteristic Impedance | 70 $\Omega$                          |
| 5) Inductance               | 0.18 $\mu$ H/ft, Nominal             |
| 6) Conductor DCR            | 16.7 $\Omega$ /1000ft @20°C, Nominal |
| 7) OA Shield DCR            | 11.8 $\Omega$ /1000ft @20°C, Nominal |

**F. Other**

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

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