

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

**Part Number: 25092**  
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**Issue: 13**  
**Issue Date: 12/20/2012**  
**Effective Date: 1/4/2013**

**A. Construction**

**Diameters (In)**

- |                |                                   |       |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 2 X 1 COND                        |       |
| a) Conductor   | 24 (7/32) AWG TC                  | 0.024 |
| b) Insulation  | 0.010" Wall, Nom. PVC, Semi Rigid | 0.044 |
| (1) Color Code | Alpha Wire Color Code E           |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	BROWN		

- |                   |  |                    |
|-------------------|--|--------------------|
| 2) Cable Assembly | 2 Components Cabled  |                    |
| a) Twists:        | 12.0 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     | 24 (7/32) AWG TC   |                    |
| 4) Jacket         | 0.032" Wall, Nom., Polyurethane (TPU)  | 0.160 (0.170 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 25092<br>XTRAGUARD(R) 2 RU AWM 20668 VW-1 --- LLXXXXXX CSA<br>AWM I/II A/B 90C 300 VOLTS FT1 CE<br>ROHS (SEQ FOOTAGE)<br>* = 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<br>VW-1             | 90°C / 300 V <sub>RMS</sub>  |
| 2) CSA International | AWM I/II A/B                        | 90°C / 300 V <sub>RMS</sub>  |
| 3) CE:               | FT1                                 |                              |
|                      | 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        | 10.6 Lbs, Maximum  |
| 4) Sunlight Resistance | Yes                |

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

- |                             |   |
|-----------------------------|---|
| 1) Voltage Rating           | 300 V <sub>RMS</sub>                            |
| 2) Capacitance              | 35 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance       | 63 pf/ft @1 kHz, Nominal                        |
| 4) Characteristic Impedance | 54 Ω  |

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- 5) Inductance 0.19  $\mu$ H/ft, Nominal
- 6) Conductor DCR 26  $\Omega$ /1000ft @20°C, Nominal
- 7) OA Shield DCR 20.8  $\Omega$ /1000ft @20°C, Nominal

**F. Other**

- 1) Packaging Flange x Traverse x Barrel (inches)
  - a) 1000 FT 12 x 4.5 x 3.5 Continuous length
  - b) 500 FT 10 x 4 x 3.5 Continuous length
  - c) Bulk(Made-to-order)

*[Spool dimensions may vary slightly]*

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