

# ALPHA WIRE

## CUSTOMER PRODUCT SPECIFICATION

**Part Number: 77039**  
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**Issue: 4**  
**Issue Date: 1/15/2013**  
**Effective Date: 1/15/2013**

### A. Construction

### Diameters (In)

- |                |                         |       |
|----------------|-------------------------|-------|
| 1) Component 1 | 3 X 1 COND              |       |
| a) Conductor   | 14 (41/30) AWG TC       | 0.074 |
| b) Insulation  | 0.011" Wall, Nom. MPPE  | 0.096 |
| (1) Color Code | Alpha Wire Color Code E |       |

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

- |                   |   |                    |
|-------------------|---|--------------------|
| 2) Cable Assembly | 3 Components Cabled   |                    |
| a) Twists:        | 4.8 Twists/foot (min)   |                    |
| b) Core Wrap      | Nonwoven Polyester Tape, 25% Overlap, Min.  |                    |
| 3) Jacket         | 0.032" Wall, Nom., MPPE   | 0.275 (0.286 Max.) |
| a) Color(s)       | SLATE   |                    |
| b) Ripcord        | 1 End 810 Denier Nylon  |                    |
| c) Print          | ALPHA WIRE-* P/N 77039 3C 14 AWG<br>ECOCABLE(TM) RU AWM 21510 105C 600V VW-1<br>C(RU) AWM I/II A/B FT1 600V 105C<br>CE ROHS (SEQ FOOTAGE)<br>* = Factory Code |                    |

### B. Applicable Specifications

- |                      |                                     |                              |
|----------------------|-------------------------------------|------------------------------|
| 1) UL                |                                     |                              |
| a) Component 1       | AWM/STYLE 11231                     | 105°C / 600 V <sub>RMS</sub> |
| b) Overall           | AWM/STYLE 21510                     | 105°C / 600 V <sub>RMS</sub> |
|                      | VW-1                                |                              |
| 2) CSA International | C(RU) AWM I/II A/B FT1              | 105°C / 600 V <sub>RMS</sub> |
| 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 | -50 to 105°C      |
| 2) Bend Radius       | 6X Cable Diameter |
| 3) Pull Tension      | 97 Lbs, Maximum   |

### E. Electrical Properties

- |                   |   |
|-------------------|---|
|                   | (For Engineering purposes only)                 |
| 1) Voltage Rating | 600 V <sub>RMS</sub>                            |
| 2) Capacitance    | 21 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance     | 0.15 µH/ft, Nominal                             |
| 4) Conductor DCR  | 2.8 Ω/1000ft @20°C, Nominal                     |

### F. Other

- |              |                                      |
|--------------|--------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches)  |
| a) 1000 FT   | 12 x 12 x 3.5 Continuous length      |
| b) 100 FT    | 12 x 4.5 x 3.5 Continuous length     |
|              | [Spool dimensions may vary slightly] |

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