

# ALPHA WIRE

## CUSTOMER PRODUCT SPECIFICATION

**Part Number: 78124**  
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**Issue: 1**  
**Issue Date: 7/11/2014**  
**Effective Date: 9/5/2014**

### A. Construction

### Diameters (In)

- |                |                                                   |       |
|----------------|---------------------------------------------------|-------|
| 1) Component 1 | 4 X 1 COND                                        |       |
| a) Conductor   | 24 (19/36) AWG Tinned Copper                      | 0.025 |
| b) Insulation  | 0.007" Wall, Nom. Modified Polyphenylene Ether-PE | 0.039 |
| (1) Color Code | Alpha Wire Color Code E                           |       |

| Cond | Color | Cond | Color  | Cond | Color |
|------|-------|------|--------|------|-------|
| 1    | BLACK | 3    | RED    |      |       |
| 2    | BROWN | 4    | ORANGE |      |       |

- |                   |                                                                                                                                                              |                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 2) Cable Assembly | 4 Components Cabled                                                                                                                                          |                    |
| a) Twists:        | 9.6 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 Tinned Copper                                                                                                                                  |                    |
| 4) Jacket         | 0.015" Wall, Nom., Modified Polyphenylene Ether-PE                                                                                                           | 0.132 (0.140 Max.) |
| a) Color(s)       | SLATE                                                                                                                                                        |                    |
| b) Ripcord        | 1 End 810 Denier Nylon                                                                                                                                       |                    |
| c) Print          | ALPHA WIRE-* P/N 78124 4C 24 AWG<br>ECOCABLE(R) MINI RU AWM 21460 80C 300V VW-1<br>C(RU) AWM I A/B FT1 80C 300V<br>CE ROHS (SEQ FOOTAGE)<br>* = Factory Code |                    |

### B. Applicable Specifications

- |                      |                                     |                             |
|----------------------|-------------------------------------|-----------------------------|
| 1) UL                | AWM/STYLE 21460                     | 80°C / 300 V <sub>RMS</sub> |
|                      | VW-1                                |                             |
| 2) CSA International | C(RU) AWM I A/B FT1                 | 80°C / 300 V <sub>RMS</sub> |
| 3) Other             | Halogen-Free                        |                             |
| 4) 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> .                                                    |

### D. Physical & Mechanical Properties

- |                      |                    |
|----------------------|--------------------|
| 1) Temperature Range | -40 to 80°C        |
| 2) Bend Radius       | 10X Cable Diameter |
| 3) Pull Tension      | 18.4 Lbs, Maximum  |

### E. Electrical Properties

- |                       |                                                 |
|-----------------------|-------------------------------------------------|
|                       | (For Engineering purposes only)                 |
| 1) Voltage Rating     | 300 V <sub>RMS</sub>                            |
| 2) Capacitance        | 30 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 54 pf/ft @1 kHz, Nominal                        |
| 4) Inductance         | 0.17 µH/ft, Nominal                             |
| 5) Conductor DCR      | 24.1 Ω/1000ft @20°C, Nominal                    |
| 6) OA Shield DCR      | 19.6 Ω/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) 100 FT    | 6.5 x 2 x 1.9 Continuous length     |

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c) Bulk(Made-to-order)

*[Spool dimensions may vary slightly]*

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