

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

**Part Number: 78131**  
**Page 1 of 2 Pages**

**Issue: 1**  
**Issue Date: 8/8/2014**  
**Effective Date: 10/3/2014**

**A. Construction**

**Diameters (In)**

- |                |   |       |
|----------------|---|-------|
| 1) Component 1 | 15 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	6	GREEN	11	WHITE/BLACK
2	BROWN	7	BLUE	12	WHITE/BROWN
3	RED	8	VIOLET	13	WHITE/RED
4	ORANGE	9	SLATE	14	WHITE/ORANGE
5	YELLOW	10	WHITE	15	WHITE/YELLOW

- |                   |   |                    |
|-------------------|---|--------------------|
| 2) Cable Assembly | 15 Components Cabled  |                    |
| a) Twists:        | 4.8 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  | 0.217 (0.230 Max.) |
| a) Color(s)       | SLATE   |                    |
| b) Ripcord        | 1 End 810 Denier Nylon  |                    |
| c) Print          | ALPHA WIRE-* P/N 78131 15C 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      | 59 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                | 24.3 Ω/1000ft @20°C, Nominal                    |
| 6) OA Shield DCR                | 15.9 Ω/1000ft @20°C, Nominal                    |

**F. Other**

- |              |                                     |
|--------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
|--------------|-------------------------------------|

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- a) 1000 FT                      12 x 10 x 5   Continuous length
- b) 100 FT                        6.5 x 4 x 2.5   Continuous length
- c) Bulk(Made-to-order)

*[Spool dimensions may vary slightly]*

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