

## ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

**Part Number: 78355**  
**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   | 20 (19/32) AWG Tinned Copper                      | 0.040 |
|    | b) Insulation  | 0.007" Wall, Nom. Modified Polyphenylene Ether-PE | 0.054 |
|    | (1) Color Code | Alpha Wire Color Code D                           |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	6	BLUE	11	PINK
2	RED	7	BROWN	12	TAN
3	WHITE	8	YELLOW	13	RED/GREEN
4	GREEN	9	VIOLET	14	RED/YELLOW
5	ORANGE	10	SLATE	15	RED/BLACK

- |    |                     |   |                    |
|----|---------------------|---|--------------------|
| 2) | Cable Assembly      | 15 Components Cabled  |                    |
|    | a) Twists:          | 3.4 Twists/foot (min)   |                    |
|    | b) Core Wrap        | Nonwoven Polyester Tape, 25% Overlap, Min.  |                    |
| 3) | Shield:             | A/P/A Tape, 25% Overlap, Min.   |                    |
|    | a) Drain Wire       | 20 (7/28) AWG Tinned Copper   |                    |
|    | b) Braid            | Tinned Copper, 70% Coverage, Min.   |                    |
| 4) | Jacket              | 0.015" Wall, Nom., Modified Polyphenylene Ether-PE  | 0.313 (0.327 Max.) |
|    | a) Color(s)         | SLATE   |                    |
|    | b) Ripcord          | 1 End 810 Denier Nylon  |                    |
|    | c) Jacket Separator | Nonwoven Polyester Tape, 25% Overlap, Min.  |                    |
|    | d) Print            | ALPHA WIRE-* P/N 78355 15C 20 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      | 157 Lbs, Maximum   |  |

**E. Electrical Properties**

- |                                 |                    |  |  |
|---------------------------------|--------------------|--|--|
| (For Engineering purposes only) |                    |  |  |
| 1)                              | Voltage Rating     | 300 V <sub>RMS</sub>                             |  |
| 2)                              | Capacitance        | 37 pf/ft @ 1 kHz, Nominal Conductor to Conductor |  |
| 3)                              | Ground Capacitance | 67 pf/ft @ 1 kHz, Nominal                        |  |
| 4)                              | Inductance         | 0.15 µH/ft, Nominal                              |  |
| 5)                              | Conductor DCR      | 9.5 Ω/1000ft @ 20°C, Nominal                     |  |
| 6)                              | OA Shield DCR      | 2.46 Ω/1000ft @ 20°C, Nominal                    |  |

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**Page 2 of 2 Pages**

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**F. Other**

- |                        |                                     |
|------------------------|-------------------------------------|
| 1) Packaging           | Flange x Traverse x Barrel (inches) |
| a) 1000 FT             | 18 x 12 x 8 Continuous length       |
| b) 100 FT              | 12 x 4.5 x 3.5 Continuous length    |
| c) Bulk(Made-to-order) |                                     |
- [Spool dimensions may vary slightly]*

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