

## ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

**Part Number: 78346**  
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**Issue: 1**  
**Issue Date: 8/7/2014**  
**Effective Date: 10/2/2014**

**A. Construction** **Diameters (In)**

- |    |                |   |       |
|----|----------------|---|-------|
| 1) | Component 1    | 6 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	3	WHITE	5	ORANGE
2	RED	4	GREEN	6	BLUE

- |    |                     |  |                    |
|----|---------------------|--|--------------------|
| 2) | Cable Assembly      | 6 Components Cabled  |                    |
|    | a) Twists:          | 5.3 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   | 0.228 (0.238 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 78346 6C 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):  
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 [RoHS C of C](#).
- 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 [Alpha's REACH SVHC Declaration](#).

**D. Physical & Mechanical Properties**

- |    |                   |                    |  |
|----|-------------------|--------------------|--|
| 1) | Temperature Range | -40 to 80°C        |  |
| 2) | Bend Radius       | 10X Cable Diameter |  |
| 3) | Pull Tension      | 70 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      | 9.4 Ω/1000ft @20°C, Nominal                     |  |
| 6) | OA Shield DCR      | 2.9 Ω/1000ft @20°C, Nominal                     |  |

**F. Other**

- |    |            |                                     |  |
|----|------------|-------------------------------------|--|
| 1) | Packaging  | Flange x Traverse x Barrel (inches) |  |
|    | a) 1000 FT | 12 x 10 x 5 Continuous length       |  |

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- 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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