

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

**Part Number: 78073**  
**Page 1 of 1 Pages**

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

**A. Construction**

**Diameters (In)**

- |    |                |   |       |
|----|----------------|---|-------|
| 1) | Component 1    | 3 X 1 PAIR  |       |
|    | 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 B                           |       |

Pair	Color	Pair	Color	Pair	Color
1	WHITE-BLACK	2	WHITE-BROWN	3	WHITE-RED

- |    |                |   |                    |
|----|----------------|---|--------------------|
| c) | Pair           | 2/Cond Cabled Together  |                    |
|    | (1) Twists:    | 12.0 Twists/foot (min)  |                    |
| 2) | Cable Assembly | 3 Components Cabled   |                    |
|    | a) Twists:     | 6.0 Twists/foot (min)   |                    |
|    | b) Core Wrap   | Nonwoven Polyester Tape, 25% Overlap, Min.  |                    |
| 3) | Jacket         | 0.015" Wall, Nom., Modified Polyphenylene Ether-PE  | 0.172 (0.183 Max.) |
|    | a) Color(s)    | SLATE   |                    |
|    | b) Ripcord     | 1 End 810 Denier Nylon  |                    |
|    | c) Print       | ALPHA WIRE-* P/N 78073 3PR 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):  
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      | 22.4 Lbs, Maximum  |  |
- E. Electrical Properties**  
(For Engineering purposes only)
- |    |                          |                              |  |
|----|--------------------------|------------------------------|--|
| 1) | Voltage Rating           | 300 V <sub>RMS</sub>         |  |
| 2) | Mutual Capacitance       | 18.9 pf/ft @1 kHz, Nominal   |  |
| 3) | Characteristic Impedance | 82 Ω                         |  |
| 4) | Inductance               | 0.17 μH/ft, Nominal          |  |
| 5) | Conductor DCR            | 24.5 Ω/1000ft @20°C, Nominal |  |

**F. Other**

- |    |                        |                                     |  |
|----|------------------------|-------------------------------------|--|
| 1) | Packaging              | Flange x Traverse x Barrel (inches) |  |
|    | a) 1000 FT             | 12 x 6 x 3.5 Continuous length      |  |
|    | b) 100 FT              | 6.5 x 2 x 1.9 Continuous length     |  |
|    | c) Bulk(Made-to-order) |                                     |  |

*[Spool dimensions may vary slightly]*

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