

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

**Part Number: 78044**  
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**Issue: 1**  
**Issue Date: 7/12/2014**  
**Effective Date: 9/6/2014**

**A. Construction**

- |                |   | <u>Diameters (In)</u> |
|----------------|---|-----------------------|
| 1) Component 1 | 4 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		
2	RED	4	GREEN		

- |                   |  |                    |
|-------------------|--|--------------------|
| 2) Cable Assembly | 4 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   | 0.165 (0.173 Max.) |
| a) Color(s)       | SLATE  |                    |
| b) Ripcord        | 1 End 810 Denier Nylon   |                    |
| c) Print          | ALPHA WIRE-* P/N 78044 4C 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      | 38 Lbs, Maximum                 |
|                      | (For Engineering purposes only) |

**E. Electrical Properties**

- |                   |   |
|-------------------|---|
| 1) Voltage Rating | 300 V <sub>RMS</sub>                              |
| 2) Capacitance    | 21.5 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance     | 0.15 µH/ft, Nominal                               |
| 4) Conductor DCR  | 9.4 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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