

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 518502
Page 1 of 2 Pages

Issue: 1
Issue Date: 4/30/2015
Effective Date: 6/25/2015

A. Construction

Diameters (In)

- | | | |
|----------------|---------------------------------------------------|-------|
| 1) Component 1 | 2 X 1 COND | |
| a) Conductor | 22 (19/34) AWG Tinned Copper | 0.032 |
| b) Insulation | 0.007" Wall, Nom. Modified Polyphenylene Ether-PE | 0.046 |
| (1) Color Code | Alpha Wire Color Code D | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	RED		

- | | | |
|-------------------|-------------------------------------------------------------------------------------------------------------------|----------------|
| 2) Cable Assembly | 2 Components Cabled | |
| a) Twists: | 9.6 Twists/foot (min) | |
| b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) Jacket | 0.027" Wall, Nom., Modified Polyphenylene Ether-PE | 0.150+/- 0.010 |
| a) Color(s) | Slate, Black | |
| b) Print | ALPHA WIRE-* P/N 518502
RU AWM 21460 80C 300V VW-1 C(RU) AWM I A/B FT1
80C 300V ROHS CE
* = Factory Code | |

B. Applicable Specifications

- | | | |
|----------------------|-------------------------------------|-----------------------------|
| 1) UL | AWM/STYLE 21460 | 80°C / 300 V _{RMS} |
| | VW-1 | |
| 2) CSA International | C(RU) AWM I A/B FT1 | 80°C / 300 V _{RMS} |
| 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 | 11.8 Lbs, Maximum |

E. Electrical Properties

- (For Engineering purposes only)
- | | |
|-----------------------------|----------------------------------------------------|
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 20.3 pf/ft @ 1 kHz, Nominal Conductor to Conductor |
| 3) Characteristic Impedance | 74 Ω |
| 4) Inductance | 0.16 μH/ft, Nominal |
| 5) Conductor DCR | 15.2 Ω/1000ft @20°C, Nominal |

F. Other

- | | |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) Bulk(Made-to-order) | |
| 2) Notes: | |
| a) | Roundness and smoothness are same as RD2012. Maximum Nominal OD is 0.150". |
| b) | Jacket marking is similar to RD2012 (Color just enough contrast with the jacket color so as to be legible. Marking to be as subtle as possible). |

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This Design is custom, Made-To-Order & once accepted, the order is NON-CANCELLABLE & NON-RETURNABLE.

Accepted By:	Date:
Company:	Title:

PROPRIETARY

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