## ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 78142 Issue: 1

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Effective Date: 5/29/2014

A. Construction <u>Diameters (In)</u>

1) Component 1 2 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	2	RED		

2) Cable Assembly 2 Components Cabled a) Twists: 8.0 Twists/foot (min)

b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.

3) Shield: Alum/Mylar Tape, 25% Overlap, Min.

a) Foil Direction Foil Facing In

b) Drain Wire 20 (7/28) AWG Tinned Copper

4) Jacket 0.015" Wall, Nom., Modified Polyphenylene Ether-PE 0.146 (0.153 Max.)

a) Color(s) SLATE

b) Ripcord 1 End 810 Denier Nylon

c) Print ALPHA WIRE-\* P/N 78142 2C 20 AWG

ECOCABLE(R) MINI RU AWM 21460 80C 300V VW-1

C(RU) AWM I A/B FT1 80C 300V CE ROHS (SEQ FOOTAGE)

\* = Factory Code

B. Applicable Specifications

1) UL AWM/STYLE 21460 80°C / 300 V<sub>RMS</sub>

VW-1

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  $\underline{\mathsf{RoHS}\;\mathsf{C}\;\mathsf{of}\;\mathsf{C}}$ .

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

Temperature Range
 Bend Radius
 Pull Tension
 40 to 80°C
 10X Cable Diameter
 28 Lbs, Maximum

E. Electrical Properties (For Engineering purposes only)

1) Voltage Rating 300 V<sub>RMS</sub>

Capacitance43 pf/ft @1 kHz, Nominal Conductor to Conductor

3) Ground Capacitance 77 pf/ft @1 kHz, Nominal

Characteristic Impedance 38 Ω

5) Inductance 0.15 µH/ft, Nominal

6) Conductor DCR
 7) OA Shield DCR
 9.4 Ω/1000ft @20°C, Nominal
 9.1 Ω/1000ft @20°C, Nominal

F. Other

1) Packaging Flange x Traverse x Barrel (inches) a) 1000 FT 12 x 4.5 x 3.5 Continuous length

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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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