ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 78104 Issue: 1

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

1) Component 1 4 X 1 COND

a) Conductor 28 (19/40) AWG Tinned Copper 0.016 b) Insulation 0.007" Wall, Nom. Modified Polyphenylene Ether-PE 0.030

(1) Color Code Alpha Wire Color Code E

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	RED		
2	BROWN	4	ORANGE		

2) Cable Assembly 4 Components Cabled a) Twists: 4 Components Cabled 12.0 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 28 (7/36) AWG Tinned Copper

4) Jacket 0.015" Wall, Nom., Modified Polyphenylene Ether-PE 0.111 (0.119 Max.)

a) Color(s) SLATE

b) Ripcord 1 End 810 Denier Nylon

c) Print ALPHA WIRE-* P/N 78104 4C 28 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_{RMS}

VW-1

2) CSA International C(RU) AWM I A/B FT1 80° C / $300 \text{ V}_{\text{RMS}}$

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.

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 <u>Alpha's REACH SVHC Declaration</u>.

D. Physical & Mechanical Properties

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

E. Electrical Properties (For Engineering purposes only)

1) Voltage Rating 300 V_{RMS}

Capacitance23.9 pf/ft @1 kHz, Nominal Conductor to Conductor

3) Ground Capacitance
 4) Inductance
 5) Conductor DCR
 43 pf/ft @1 kHz, Nominal
 0.19 μH/ft, Nominal
 63 Ω/1000ft @20°C, Nominal

5) Conductor DCR
 6) OA Shield DCR
 63 Ω/1000ft @20°C, Nominal
 41 Ω/1000ft @20°C, Nominal

F. Other

1) Packaging a) 1000 FT
 b) 100 FT
 flange x Traverse x Barrel (inches)
 12 x 4.5 x 3.5 Continuous length
 6.5 x 2 x 1.9 Continuous length

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c) Bulk(Made-to-order)

[Spool dimensions may vary slightly]

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