ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 78103	**Issue: 1**
Page 1 of 2 Pages	**Issue Date: 7/1/2014**
	Effective Date: 8/26/2014

A. Construction — **Diameters (In)**

1)	Component 1	3 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	2	BROWN	3	RED

2)	Cable Assembly	3 Components Cabled	
a)	Twists:	13.7 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	0.103 (0.110 Max.)
a)	Color(s)	SLATE	
b)	Ripcord	1 End 810 Denier Nylon	
c)	Print	ALPHA WIRE-* P/N 78103 3C 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 VW-1	80°C / 300 V_{RMS}
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	5.7 Lbs, Maximum

E. Electrical Properties (For Engineering purposes only)

1)	Voltage Rating	300 V_{RMS}
2)	Capacitance	23.9 pf/ft @1 kHz, Nominal Conductor to Conductor
3)	Ground Capacitance	43 pf/ft @1 kHz, Nominal
4)	Inductance	0.19 µH/ft, Nominal
5)	Conductor DCR	63 Ω/1000ft @20°C, Nominal
6)	OA Shield DCR	41 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
b)	100 FT	3.5 x 3 x 1.125 Continuous length

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c) Bulk(Made-to-order)

[Spool dimensions may vary slightly]

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