

## Customer Specification

### PART NO. 78303

### 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) Orientation:	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER				
c) Core Wrap	Nonwoven Polyester Tape, 25% Overlap, Min.				
3) Shield:	A/P/A Tape, 25% Overlap, Min.				
a) Drain Wire	28 (7/36) AWG Tinned Copper				
b) Braid	Tinned Copper, 70% Coverage, Min.				
4) Jacket	0.015" Wall, Nom., Modified Polyphenylene Ether-PE				0.130 (0.138 Max.)
a) Color(s)	SLATE				
b) Ripcord	1 End 810 Denier Nylon				
c) Jacket Separator	Nonwoven Polyester Tape, 25% Overlap, Min.				
d) Print	ALPHA WIRE-* P/N 78303 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				

### 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	
	NFPA 79 - 2015 Compliant	
4) CE:	EU Low Voltage Directive 2014/35/EU	

## Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item.
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.

## Properties

Physical & Mechanical Properties	
1) Temperature Range	-40 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	7 Lbs, Maximum
<b>Electrical Properties</b>	(For Engineering purposes only)
1) Voltage Rating	300 V <sub>RMS</sub>
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	12.2 Ω/1000ft @20°C, Nominal

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	10.5 x 5 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]

[www.alphawire.com](http://www.alphawire.com)

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# EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 78303

78303, RoHS-Compliant Commencing With 7/22/2014 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). This product also complies with UK - RoHS. The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

## Substance

Lead  
Mercury  
Cadmium  
Hexavalent Chromium  
Polybrominated Biphenyls (PBB)  
Polybrominated Diphenyl Ethers (PBDE) ,  
Including Deca-BDE  
Bis(2-ethylhexyl) phthalate (DEHP)  
Butyl benzyl phthalate (BBP)  
Dibutyl phthalate (DBP)  
Diisobutyl phthalate (DIBP)

## Maximum Control Value

0.1% by weight (1000 ppm)  
0.1% by weight (1000 ppm)  
0.01% by weight (100 ppm)  
0.1% by weight (1000 ppm )  
0.1% by weight (1000 ppm)  
  
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The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 4/28/2024

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