

# **Customer Specification**

### **PART NO. 78455**

#### Construction

					Diameters	(ln)
1) Compone	nt 1	25	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 Cod	de	Al	Alpha Wire Color Code D			
Cond	Color	Cond	Color	Con	d	Color
1	BLACK	10	SLATE	19		WHITE/YELLOW
2	RED	11	PINK	20		WHITE/BLUE
3	WHITE	12	TAN	21		WHITE/BROWN
4	GREEN	13	RED/GREEN	22		WHITE/ORANGE
5	ORANGE	14	RED/YELLOW	23		WHITE/SLATE
6	BLUE	15	RED/BLACK	24		WHITE/VIOLET
7	BROWN	16	WHITE/BLACK	25		WHITE/BLACK/RED
8	YELLOW	17	WHITE/RED			
9	VIOLET	18	WHITE/GREEN			
2) Cable Assembly		25	Components Cabled			
a) Twists:		2.	2.5 Twists/foot (min)			
b) Orientation:			Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap		N	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		A,	A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire	е	20	20 (7/28) AWG Tinned Copper			
b) Braid		Ti	Tinned Copper,70% Coverage, Min.			
4) Jacket			0.015" Wall, Nom.,Modified Polyphenylene Ether-PE		0.389 (0.407 Max.)	
a) Color(s)			SLATE			
b) Ripcord			1 End 810 Denier Nylon			
			Nonwoven Polyester Tape, 25% Overlap, Min.			
d) Print			ALPHA WIRE-* P/N 78455 25C 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			

# **Applicable Specifications**

AWM/STYLE 21460	80°C / 300 V <sub>RMS</sub>	
VW-1		
C(RU) AWM I A/B FT1	80°C / 300 V <sub>RMS</sub>	
Halogen-Free		
NFPA 79 - 2015 Compliant		
EU Low Voltage Directive 2014/35/EU		
	VW-1 C(RU) AWM I A/B FT1 Halogen-Free NFPA 79 - 2015 Compliant	

### **Environmental**

1) CE: EU Direc	tive 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 Regu	ulation (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	254 Lbs, Maximum		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	300 V <sub>RMS</sub>		
2) Capacitance	37 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Ground Capacitance	67 pF/ft @1 kHz, Nominal		
4) Inductance	0.15 μH/ft, Nominal		
5) Conductor DCR	nductor DCR 9.5 Ω/1000ft @20°C, Nominal		
6) OA Shield DCR	A Shield DCR 2.2 Ω/1000ft @20°C, Nominal		

#### Other

Other		

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	18 x 14.25 x 8 Continuous length	
b) 100 FT	12 x 5.94 x 5 Continuous length	
c) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	

#### www.alphawire.com

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## **EU/UK/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 78455

78455, 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	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm )
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE),	
Including Deca-BDE	0.1% by weight (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/1/2024

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