

# Customer Specification PART NO. 78424

# Construction

				Diameters (I	n)
1) Component 1		20 X 1 CONE	20 X 1 COND		
a) Conductor		22 (19/34) AV	22 (19/34) AWG Tinned Copper		
b) Insulation		1	0.007" Wall, Nom. Modified Polyphenylene Ether-PE		
(1) Color Code		Alpha Wire C	Alpha Wire Color Code E		
Cond	Color	Cond	Color	Cond	Color
1	BLACK	8	VIOLET	15	WHITE/YELLOW
2	BROWN	9	SLATE	16	WHITE/GREEN
3	RED	10	WHITE	17	WHITE/BLUE
4	ORANGE	11	WHITE/BLACK	18	WHITE/VIOLET
5	YELLOW	12	WHITE/BROWN	19	WHITE/SLATE
6	GREEN	13	WHITE/RED	20	WHITE/BLACK/B ROWN
7	BLUE	14	WHITE/ORANGE		
2) Cable Assembly		20 Compone	20 Components Cabled		
a) Twists:		3.4 Twists/foo	3.4 Twists/foot (min)		
b) Orientation:		•	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER		
c) Core Wrap		Nonwoven Po	Nonwoven Polyester Tape, 25% Overlap, Min.		
3) Shield:		A/P/A Tape, 2	A/P/A Tape, 25% Overlap, Min.		
a) Drain Wire		22 (7/30) AW	22 (7/30) AWG Tinned Copper		
b) Braid		Tinned Copp	Tinned Copper,70% Coverage, Min.		
4) Jacket			0.015" Wall, Nom.,Modified Polyphenylene Ether-PE		Max.)
a) Color(s)		SLATE	SLATE		

b) Ripcord	1 End 810 Denier Nylon	
c) Jacket Separator	Nonwoven Polyester Tape, 25% Overlap, Min.	
d) Print	ALPHA WIRE-* P/N 78424 20C 22 AV ECOCABLE(R) MINI RU AWM 21460 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/EC	

# Environmental

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 2011and the amending Directive 2015/863/EU of 4 June 2015. 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.	

# **Properties**

Physical & Mechanical Properties		
1) Temperature Range	-40 to 80°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	129 Lbs, Maximum	

Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V <sub>RMS</sub>
2) Capacitance	34 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	61 pF/ft @1 kHz, Nominal
4) Inductance	0.16 μH/ft, Nominal
5) Conductor DCR	15.3 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	2.7 Ω/1000ft @20°C, Nominal

#### Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	16 x 11 x 8 Continuous length
b) 100 FT	12 x 4.5 x 3.5 Continuous length
c) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

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

To Whom It May Concern:

Alpha Wire Part Number: 78424

78424, RoHS-Compliant Commencing With 7/22/2014 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above 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) 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.

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)

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 & QA

9/24/2020

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# **Mouser Electronics**

**Authorized Distributor** 

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Alpha Wire:

78424 SL005 78424 SL001