

Customer Specification

PART NO. 78398

Construction

						Diameters (In)	
1) Component 1						8 X 1 PAIR	
a) Conductor						20 (19/32) AWG Tinned Copper	0.040
b) Insulation						0.007" Wall, Nom. Modified Polyphenylene Ether-PE	0.054
(1) Color Code						Alpha Wire Color Code A	
Pair	Color	Pair	Color	Pair	Color		
1	BLACK-RED	4	BLACK- BLUE	7	BLACK- ORANGE		
2	BLACK- WHITE	5	BLACK- BROWN	8	RED-GREEN		
3	BLACK- GREEN	6	BLACK- YELLOW				
c) Pai	r					2/Cond Cabled Together	
(1) Tv	vists:					8.0 Twists/foot (min)	
2) Ca	ble Assembly					8 Components Cabled	
a) Tw	ists:					2.8 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						20 (7/28) AWG Tinned Copper	
b) Braid						Tinned Copper,70% Coverage, Min.	
4) Jacket						0.015" Wall, Nom.,Modified Polyphenylene Ether-PE	0.359 (0.375 Max.)
a) Co	lor(s)					SLATE	
b) Ripcord						1 End 810 Denier Nylon	
c) Jacket Separator						Nonwoven Polyester Tape, 25% Overlap, Min.	
d) Print						ALPHA WIRE-* P/N 78398 8PR 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 _{RMS}
VW-1	
C(RU) AWM I A/B FT1	80°C / 300 V _{RMS}
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 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	168 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Mutual Capacitance	22.8 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	41 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	72 Ω	
5) Inductance	0.15 μH/ft, Nominal	
6) Conductor DCR	9.6 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	2.08 Ω/1000ft @20°C, Nominal	

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]	

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 78398

78398, RoHS-Compliant Commencing With 22/07/2014 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 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. T the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitio **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control c

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 d 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 c Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and reg Authorized Signatory for the Alpha Wire:

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Dave Watson, Director of Engineering & QA 24/08/2025

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