

Customer Specification

PART NO. 78374

Construction

						Diameters (In)	
1) Component 1						4 X 1 PAIR	
a) Conductor						24 (19/36) AWG Tinned Copper	
b) Insulation						0.007" Wall, Nom. Modified Polyphenylene Ether-PE	
(1) Color Code						Alpha Wire Color Code B	
Pair	Color	Pair	Color	Pair	Color		
1	WHITE-BLACK	3	WHITE-RED				
2	WHITE-BROWN	4	WHITE-ORANGE				
c) Pair						2/Cond Cabled Together	
(1) Twists:						12.0 Twists/foot (min)	
2) Cable Assembly						4 Components Cabled	
a) Twists:						5.3 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						24 (7/32) AWG Tinned Copper	
b) Braid						Tinned Copper, 70% Coverage, Min.	
4) Jacket						0.015" Wall, Nom., Modified Polyphenylene Ether-PE	
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 78374 4PR 24 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

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1) UL	AWM/STYLE 21460	80°C / 300 V _{RMS}
	VW-1	
2) CSA International	C(RU) AWM I A/B FT1	80°C / 300 V _{RMS}
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	37 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Mutual Capacitance	22 pF/ft @1 kHz, Nominal
3) Ground Capacitance	40 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	75 Ω
5) Inductance	0.17 μH/ft, Nominal
6) Conductor DCR	24.5 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	3.5 Ω/1000ft @20°C, Nominal

Other

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Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 10.5 x 5 Continuous length
b) 100 FT	6.5 x 4 x 2.5 Continuous length
c) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 78374

78374, 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 Union (RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This document also certifies that the listed part number is in compliance with 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 restrictions. **Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control" requirements.

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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Dave Watson, Director of Engineering & QA 31/03/2025

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