

## Customer Specification

### PART NO. 78204

### Construction

						Diameters (In)		
1) Component 1						4 X 1 PAIR		
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 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:						13.7 Twists/foot (min)		
Individually Applied:								
d) Shield:						Foil Free Alum/Mylar Tape, 25% Overlap, Min.		
(1) Foil Direction						Foil Facing In		
(2) Drain Wire						28 (7/36) AWG Tinned Copper		
2) Cable Assembly						4 Components Cabled		
a) Twists:						6.0 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:						Alum/Mylar Tape, 25% Overlap, Min.		
a) Foil Direction						Foil Facing In		
b) Drain Wire						28 (7/36) AWG Tinned Copper		
4) Jacket						0.015" Wall, Nom., Modified Polyphenylene Ether-PE		0.177 (0.189 Max.)
a) Color(s)						SLATE		
b) Ripcord						1 End 810 Denier Nylon		
c) Print						ALPHA WIRE-* P/N 78204 4PR 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 VW-1	80°C / 300 V <sub>RMS</sub>
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

<b>Physical &amp; Mechanical Properties</b>	
1) Temperature Range	-40 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	18.4 Lbs, Maximum
<b>Electrical Properties</b>	
(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Mutual Capacitance	26 pF/ft @1 kHz, Nominal
3) Ground Capacitance	47 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	63 Ω
5) Inductance	0.19 μH/ft, Nominal
6) Conductor DCR	64 Ω/1000ft @20°C, Nominal
7) Component Shield DCR	48 Ω/1000ft @20°C, Nominal
8) OA Shield DCR	26 Ω/1000ft @20°C, Nominal

## Other

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Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	11 x 8.5 x 5 Continuous length
b) 100 FT	6.5 x 2 x 1.9 Continuous length
c) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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# EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 78204

78204, 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

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 11/26/2024

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