

## **Customer Specification**

## **PART NO. 6414**

#### Construction

						Diameter ("in")	
1) Component 1						3 x 1 PAIR	
a) Conductor						24 (7/32) AWG Tinned Copper	0.024
b) Insulation						0.016" Wall, Nom. Polyethylene (PE)	0.056
(1) Color Code						Alpha Wire Color Code M	
Pair	Color	Pair	Color	Pair	Color		_
	BLUE/WHITI		ORANGE/W		GREEN/WHI		
1	-	2	-	3	-		
	WHITE/BLUE		WHITE/ORAI		WHITE/GREE		
c) Pai	r					2/Cond Cabled Together	
(1) Tv	vists					8.0 Twists/foot (min.)	
2) Ca	ble Assembly					3 Components Cabled	
a) Tw	ists					4.4 Twists/foot (min.)	
b) Orientation						Components to be arranged from INSIDE LAYER-to- OUTSIDE LAYER	
3) Shield						Alum/Mylar Tape, 25% Overlap (min.)	
a) Foil Direction						Foil Facing Out	
b) Drain Wire						24 (7/32) AWG Tinned Copper	
c) Bra	id					Tinned Copper,90% Coverage (min.)	
4) Jacket					0.035" Wall, Nom. PVC	0.294 (0.308 max.)	
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N 6414 3PR 24 AWG SHIELDED 75C (UL) C(UL) TYPE CM OR AWM 2919 LOW VOLTAGE COMPUTER CABLE CE ROHS * = Factory Code Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.	

### **Applicable Specifications**

1) UL	AWM/STYLE 2919	80°C / 30 V <sub>RMS</sub>	
	СМ	75°C	
	VW-1		
2) CSA International	C(UL) TYPE CM	75°C	
3) CE	EU Low Voltage Directive 2014/35/EU		
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## 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.	
3) California Proposition 65	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more detail.	

## **Properties**

Physical & Mechanical Properties		
1) Temperature Range	-20 to 80°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	31 lbs. (max.)	
Electrical Properties	For Engineering purposes only	
1) Voltage Rating	300 V <sub>RMS</sub>	
2) Characteristic Impedance	120 ω	
3) Mutual Capacitance	12.8 pF/ft @1 kHz, Nominal	
4) Ground Capacitance	23 pF/ft @1 kHz, Nominal	
5) Conductor DCR	26 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	18 x 9 x 8 Continuous Length	
b) 500 FT	12 x 10.5 x 5 Continuous Length	
c) 100 FT	12 x 4.5 x 3.5 Continuous Length	
	Spool dimensions may vary slightly.	

#### www.alphawire.com

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

To Whom It May Concern:

Alpha Wire Part Number: 6414

6414, RoHS-Compliant Commencing With 01/03/2005 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 01/04/2025

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