

Customer Specification

PART NO. 6413

Construction

						Diameter ("in")	
1) Component 1						2 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		
1	BLUE/WHITE - WHITE/BLUE	2	ORANGE/WHIT - WHITE/ORANGI				
c) Pair						2/Cond Cabled Together	
(1) Twists						8.0 Twists/foot (min.)	
2) Cable Assembly						2 Components Cabled	
a) Twists						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) Braid						Tinned Copper, 90% Coverage (min.)	
4) Jacket						0.035" Wall, Nom. PVC	0.280 (0.293 max.)
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N 6413 2PR 24 AWG SHIELDED 75C (UL) C(UL) TYPE CM OR AWM 2919 LOW VOLTAGE COMPUTER CABLE CE ROHS * = Factory Code <i>Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.</i>	

Applicable Specifications

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1) UL	AWM/STYLE 2919	80°C / 30 V _{RMS}
	CM	75°C
	VW-1	
2) CSA International	C(UL) TYPE CM	75°C
3) 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.
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	24.2 lbs. (max.)
Electrical Properties	For Engineering purposes only
1) Voltage Rating	300 V _{RMS}
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	2.5 ω/1000ft @20°C, Nominal

Other

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Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	13.5 x 10 x 4 Continuous Length
b) 500 FT	12 x 10.5 x 5 Continuous Length
c) 100 FT	10.5 x 5 x 3.5 Continuous Length
	<i>Spool dimensions may vary slightly.</i>

www.alphawire.com

Alpha Wire
2200 US Highway 27 South
Richmond, IN 47374

Tel: 1-800-52 ALPHA

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2200 US Highway 27 South
Richmond, IN 47374
Tel: 1-800-52 ALPHA
Web: www.alphawire.com

EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6413

6413, RoHS-Compliant Commencing With 3/1/2005 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

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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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 11/6/2025

Alpha Wire
2200 US Highway 27 South
Richmond, IN 47374
Tel: 1-908-925-8000