

Customer Specification

PART NO. 6409

Construction

						Diameter ("in")	
1) Coı	mponent 1					12 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		SLATE/WHI1		BROWN/REI		
1	- WHITE/BLUE	5	- WHITE/SLAT	9	- RED/BROWN		
	ORANGE/W				SLATE/RED		
2	-	6	BLUE/RED - RED/BLUE	10	-		
	WHITE/ORAI				RED/SLATE		
	GREEN/WHI	7	ORANGE/RE	11	BLUE/BLACk		
3	- WHITE/GREE	7	RED/ORANG	11	BLACK/BLUE		
	BROWN/WI		GREEN/RED		ORANGE/BL		
4	-	8		12	-		
	WHITE/BRO\		RED/GREEN		BLACK/ORAI		
c) Pair						2/Cond Cabled Together	
(1) Twists						8.0 Twists/foot (min.)	
	ole Assembly					12 Components Cabled	
a) Twi	ists					2.2 Twists/foot (min.)	
b) Orientation						Components to be arranged from INSIDE LAYER-to- OUTSIDE LAYER	
3) Shi	eld					Alum/Mylar Tape, 25% Overlap (min.)	
a) Foi	l Direction					Foil Facing Out	
b) Dra	ain Wire					24 (7/32) AWG Tinned Copper	
c) Bra	id					Tinned Copper, 65% Coverage (min.)	
4) Jacket						0.035" Wall, Nom. PVC	0.478 (0.500 max.)
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N 6409 12PR 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 _{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		
-20 to 80°C		
10X Cable Diameter		
96 lbs. (max.)		
For Engineering purposes only		
300 V _{RMS}		
100 ω		
15.5 pF/ft @1 kHz, Nominal		
27.5 pF/ft @1 kHz, Nominal		
26 ω/1000ft @20°C, Nominal		
2.1 ω/1000ft @20°C, Nominal		
	10X Cable Diameter 96 lbs. (max.) For Engineering purposes only 300 V _{RMS} 100 ω 15.5 pF/ft @1 kHz, Nominal 27.5 pF/ft @1 kHz, Nominal 26 ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous Length
b) 500 FT	18 x 14.25 x 8 Continuous Length
c) 100 FT	18 x 9 x 8 Continuous Length
	Spool dimensions may vary slightly.

www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6409

6409, 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	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 date of its release. The information provided is designed only as a general 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 document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 7/28/2024

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