



Customer Specification

PART NO. 6312

Construction				

					Diamete	ers (In)	
1) Component 1			50 X 1 CC	ND			
a) Conductor			24 (7/32)	AWG Tinned Copper	0.024		
b) Insulation			0.010" Wa	all, Nom. PVC, Semi Rigid	0.044		
(1) Color Code			Alpha Wire Color Code F				
Cond	Color	Con	d	Color	Cond	Color	
1	BLACK	18		ORANGE/RED	35	WHITE/RED/ORANGE	
2	WHITE	19		BLUE/RED	36	ORANGE/WHITE/BLUE	
3	RED	20		RED/GREEN	37	WHITE/RED/BLUE	
4	GREEN	21		ORANGE/GREEN	38	BLACK/WHITE/GREEN	
5	ORANGE	22		BLACK/WHITE/RED	39	WHITE/BLACK/GREEN	
6	BLUE	23		WHITE/BLACK/RED	40	RED/WHITE/GREEN	
7	WHITE/BLACK	24		RED/BLACK/WHITE	41	GREEN/WHITE/BLUE	
8	RED/BLACK	25		GREEN/BLACK/WHITE	42	ORANGE/RED/GREEN	
9	GREEN/BLACK	26		ORANGE/BLACK/WHITE	43	BLUE/RED/GREEN	
10	ORANGE/BLACK	27		BLUE/BLACK/WHITE	44	BLACK/WHITE/BLUE	
11	BLUE/BLACK	28		BLACK/RED/GREEN	45	WHITE/BLACK/BLUE	
12	BLACK/WHITE	29		WHITE/RED/GREEN	46	RED/WHITE/BLUE	
13	RED/WHITE	30		RED/BLACK/GREEN	47	GREEN/ORANGE/RED	
14	GREEN/WHITE	31		GREEN/BLACK/ORANGE	48	ORANGE/RED/BLUE	
15	BLUE/WHITE	32		ORANGE/BLACK/GREEN	49	BLUE/RED/ORANGE	
16	BLACK/RED	33		BLUE/WHITE/ORANGE	50	BLACK/ORANGE/RED	
17	WHITE/RED	34		BLACK/WHITE/ORANGE			
2) Cable Assembly			50 Components Cabled			·	
a) Twists:			2.3 Twists/foot (min)				
b) Orientation:			Components to be arranged from INSIDE LAYER to OUTSIDE LAYER				
3) Shield:			Alum/My	lar Tape, 20% Overlap, Min.			
a) Foil Direction			Foil Facing Out				
b) Drain Wire			24 (7/32) AWG Tinned Copper				
4) Jacket			0.045" Wall, Nom.,PVC		0.453 (0.	0.453 (0.478 Max.)	
a) Color(s)			SLATE				
b) Print			ALPHA WIRE-* P/N 6312 50C 24 AWG SHIELDED 75C (UL) TYPE CM OR AWM 2464 OR C(UL) 60C TYPE CMG FT4 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]				
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Applicable Specifications

AWM/STYLE 2464	80°C / 300 V _{RMS}	80°C / 300 V _{RMS}	
CM	75°C		
VW-1			
C(UL) TYPE CMG	60°C		
FT4			
EU Low Voltage Directive 2014/	35/EU		
	CM VW-1 C(UL) TYPE CMG FT4	CM 75°C VW-1 C(UL) TYPE CMG 60°C	

Environmental

	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 Exemption 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 information.		

Properties

Physical & Mechanical Properties			
1) Temperature Range	-20 to 80°C		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	179 Lbs, Maximum		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	300 V _{RMS}		
2) Capacitance	31 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Ground Capacitance	56 pF/ft @1 kHz, Nominal		
4) Inductance	0.19 μH/ft, Nominal		
5) Conductor DCR	26 Ω/1000ft @20°C, Nominal		
6) OA Shield DCR	13.4 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	12 x 5.94 x 5 Continuous length	
	[Spool dimensions may vary slightly]	

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6312

6312, RoHS-Compliant Commencing With 8/1/2005 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 5/3/2024

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