

Customer Specification

PART NO. 6400

Construction

						Diameter ("in")	
1) Component 1						31 x 1 PAIR	
a) Conductor						28 (7/36) AWG Tinned Copper	0.015
b) Insulation						0.010" Wall, Nom. Polyethylene (PE)	0.035
(1) Color Code						Alpha Wire Color Code K	
Pair	Color	Pair	Color	Pair	Color		
1	BLACK-RED	12	RED-BROWN	23	BLUE-YELLOW		
2	BLACK-WHITE	13	RED-ORANGE	24	BLUE-BROWN		
3	BLACK-GREEN	14	GREEN-WHITE	25	BLUE-ORANGE		
4	BLACK-BLUE	15	GREEN-BLUE	26	BROWN-YELLOW		
5	BLACK-YELLOW	16	GREEN-YELLOW	27	BROWN-ORANGE		
6	BLACK-BROWN	17	GREEN-BROWN	28	ORANGE-YELLOW		
7	BLACK-ORANGE	18	GREEN-ORANGE	29	VIOLET-ORANGE		
8	RED-WHITE	19	WHITE-BLUE	30	VIOLET-RED		
9	RED-GREEN	20	WHITE-YELLOW	31	VIOLET-WHITE		
10	RED-BLUE	21	WHITE-BROWN				
11	RED-YELLOW	22	WHITE-ORANGE				
c) Pair						2/Cond Cabled Together	
(1) Twists						12.0 Twists/foot (min.)	
2) Cable Assembly						31 Components Cabled	
a) Twists						2.2 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						28 (7/36) AWG Tinned Copper	
c) Braid						Tinned Copper,90% Coverage (min.)	
4) Jacket						0.035" Wall, Nom. PVC	0.470 (0.500 max.)
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N 6400 31PR 28 AWG SHIELDED 75C (UL) TYPE CL2 OR AWM 2960 C(UL) TYPE CM 60C FT1 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 2960	60°C / 30 V _{RMS}
	CL2	75°C
	VW-1	
2) CSA International	CMH	60°C
	FT1	
	C(UL) TYPE CM	60°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.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	96 lbs. (max.)
Electrical Properties	
<i>For Engineering purposes only</i>	
1) Voltage Rating	300 V _{RMS}
2) Characteristic Impedance	100 ω
3) Mutual Capacitance	15.5 pF/ft @1 kHz, Nominal
4) Ground Capacitance	27.5 pF/ft @1 kHz, Nominal
5) Conductor DCR	67 ω /1000ft @20°C, Nominal
6) OA Shield DCR	2.25 ω /1000ft @20°C, Nominal

Other

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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
	<i>Spool dimensions may vary slightly.</i>

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6400

6400, RoHS-Compliant Commencing With 01/11/2004 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 Union (RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This document also certifies that the listed part number is in compliance with the list of restricted substances to 10 items (commonly known as RoHS 3). The reader is referred to these Directives for the specific definitions of the restricted substances. **Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control"

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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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 this document. This document is intended to provide guidance 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 for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulatory information. Alpha Wire is an Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA 01/04/2025

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