

Customer Specification

PART NO. 3415

Construction

						Diameters ("in")	
1) Component 1						15 x 1 COND	
a) Conductor						18 (19/30) AWG Tinned Copper	
b) Insulation						0.016" Wall, Nom. PVC	
(1) Color Code						Alpha Wire Color Code F	
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	6	BLUE	11	BLUE/BLAC		
2	WHITE	7	WHITE/BLA	12	BLACK/WH		
3	RED	8	RED/BLACK	13	RED/WHIT		
4	GREEN	9	GREEN/BLA	14	GREEN/WH		
5	ORANGE	10	ORANGE/B	15	BLUE/WHIT		
2) Cable Assembly						15 Components Cabled	
a) Twists						2.2 Twists/foot (min.)	
b) Orientation						Components to be arranged from INSIDE LAYER-to-OUTSIDE LAYER	
c) Core Wrap						Clear Mylar Tape, 25% Overlap (min.)	
3) Shield						Tinned Copper BRAID Shield,90% Coverage (min.)	
4) Jacket						0.040" Wall, Nom. PVC	
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N 3415 CE ROHS * = Factory Code	

Applicable Specifications

1) Military		
a) Component 1	MIL-W-16878/Type C	105°C / 1000 V _{RMS}
2) 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	-55 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	238 lbs. (max.)
Electrical Properties	
<i>For Engineering purposes only</i>	
1) Voltage Rating	1000 V _{RMS}
2) Capacitance	44 pF/ft @1 kHz, Nominal Conductor-to-Conductor
3) Ground Capacitance	79 pF/ft @1 kHz, Nominal
4) Inductance	0.17 μH/ft, Nominal
5) Conductor DCR	5.9 ω/1000ft @20°C, Nominal
6) OA Shield DCR	1.63 ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous Length
b) 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: 3415

3415, RoHS-Compliant Commencing With 01/10/2005 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 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" requirements.

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

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