

Customer Specification

PART NO. 1450/16

Construction

						Diameters ("in")	
1) Component 1						2 x 1 COND	
a) Conductor						16 (65/34) AWG Tinned Copper	0.059
b) Insulation						0.0255" Wall, Nom. EPDM Rubber	0.110
(1) Color Code						Alpha Wire Color Code H	
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	2	WHITE				
2) Cable Assembly						2 Components Cabled	
a) Twists						3.7 Twists/foot (min.)	
b) Orientation						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
3) Shield						Tinned Copper BRAID Shield,85% Coverage (min.)	
4) Jacket						0.036" Wall, Nom. Polychloroprene	0.327+/- 0.015
a) Color(s)						BLACK	
b) Jacket Separator						Paper Tape, 25% Overlap, min. & Cotton Serve	
c) Print						ALPHA WIRE-* P/N 1450/16 CE ROHS * = Factory Code	

Applicable Specifications

1) CE	EU Low Voltage Directive 2014/35/EU
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Environmental

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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 60°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	48 lbs., (max.)
Electrical Properties	
<i>(For Engineering purposes only)</i>	
1) Voltage Rating	600 V _{RMS}
2) Capacitance	41 pF/ft @1 kHz, Nominal Conductor-to-Conductor
3) Ground Capacitance	74 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	49 ω
5) Inductance	0.19 μ H/ft, Nominal
6) Conductor DCR	4.4 ω /1000ft @20°C, Nominal
7) OA Shield DCR	3.2 ω /1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	18 x 14.25 x 8 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>
Note	
a) Cables manufactured prior to 7/11/19 are not surface marked.	

www.alphawire.com

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 1450/16

1450/16, RoHS-Compliant Commencing With 10/1/2005 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)
0.1% by weight (1000 ppm)
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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 4/1/2025

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