

## **Customer Specification**

## **PART NO. 1850**

#### Construction

	Diameters (In)	
1) Component 1	1 X 1 HOOKUP	
a) Conductor	32 (7/40) AWG Tinned Copper	0.009
b) Insulation	0.010" Wall, Nom. PVC	0.029+/- 0.002
(1) Color(s)	WHITE, BLACK, RED, GREEN, YELLOW, BLUE	

### **Applicable Specifications**

1) Military	MIL-W-16878E/1	105°C / 600 V <sub>RMS</sub>

#### **Environmental**

1) EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):	
	All materials used in the manufacture of this part are in compliance with European Directive 2011/65/EU and the amending Directive 2015/863/EU of 4 June 2015 regarding the restriction of use of certain hazardous substances in electrical and electronic equipment.
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	-55 to 105°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	0.53 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	600 V <sub>RMS</sub>	
2) Inductance	0.09 μH/ft, Nominal	
3) Conductor DCR	169 Ω/1000ft @20°C, Nominal	

### Other

3.5 x 3 x 1.125 Continuous length
2.75 x 1 x 1.125 Continuous length
[Spool dimensions may vary slightly]
2

#### www.alphawire.com

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# **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 1850

1850, RoHS-Compliant Commencing With 01/01/2005 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 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. T the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitio **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control c

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 d 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 c Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and reg Authorized Signatory for the Alpha Wire:

Q AI to

Dave Watson, Director of Engineering & QA 31/03/2025

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