

## Customer Specification

### PART NO. 5859/10

### Construction

		Diameters (In)
1) Component 1	1 X 1 HOOKUP	
a) Conductor	10 (37/26) AWG Silver Plated Copper	0.111
b) Insulation	0.012" Wall, Nom. PTFE	0.134+/- 0.007
(1) Color(s)	WHITE, BLACK	

### Applicable Specifications

1) UL	VW-1	
2) Military	MIL-W-16878/4 (Type E)	200°C / 600 V <sub>RMS</sub>
3) Other	NEMA HP3-EXBMG	

### 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	-60 to 200°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	74 Lbs, Maximum
<b>Electrical Properties</b> (For Engineering purposes only)	
1) Voltage Rating	600 V <sub>RMS</sub>
2) Inductance	0.03 μH/ft, Nominal
3) Conductor DCR	1.13 Ω/1000ft @20°C, Nominal

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	10.5 x 5 x 3.5 Max. 3 separate pieces; Min length/piece 100 FT.
b) 500 FT	6.5 x 6 x 1.9 Max. 2 separate pieces; Min length/piece 100 FT.
c) 100 FT	6.5 x 2 x 1.9 Continuous length
	<i>[Spool dimensions may vary slightly]</i>
<b>Notes:</b>	
a) Black in all put-ups and 500 ft put-ups by special order only	

[www.alphawire.com](http://www.alphawire.com)

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# EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5859/10

5859/10, RoHS-Compliant Commencing With 3/1/2005 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 2002/95/EC (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 document also certifies compliance with the RoHS Directive (commonly known as RoHS 3). This document extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). These Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item** compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product

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 issuance. This document is intended to serve 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 constitute a warranty or a specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislative requirements to their product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 4/10/2024

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