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# Customer Specification

## PART NO. SW1

### Construction

Product	Spiral Wrap Tubing	
Material	Polyethylene	
Color	Natural	
Flamability	Not Rated	
Dimensions:		
	Outside Diameter	0.125" +/- 0.020"
	Inside Diameter	0.061", Nominal
	Wall Thickness	0.032", Nominal
	Pitch	0.187", Nominal
	Pitch Direction	Right Hand

### Applicable Specifications

ASTM 1248-65T, Type 1 Class A, Grade 3		
DSSC CID A-A59602, Type 1, Class1		
MIL-I-631D, Type A, Form U		
MIL-P-21922B		
UL CCN UZKX2		

### Environmental

1) EU Directive 2011/65/EU:	All materials used in the manufacture of this part meet the requirements of Europe hazardous substances in electrical and electronic equipment. No Exemptions are web site for RoHS C of C.
2) REACH Regulation (EC 1907/2006):	This product does not contain Substances of Very High Concern (SVHC) listed on mass of the item. For up-to-date information, please see Alpha's REACH SVHC D
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the require

### Properties

<b>Physical &amp; Mechanical Properties</b>			
1) Temperature Rating	-60C to +88C		
2) Tensile Strength	1800 PSI, Min		
<b>Electrical Properties</b>			
1) Abrasion Resistance	22 mg Loss per M Cycles		
<b>Chemical Properties</b>			
1) Water Absorption	0.014%		
2) Effects of Organic Solvents	No appreciable effect below 50C		
3) Effects of Alkalies	None		
4) Effects of Acids	None		
5) Hologen Free	Yes		
6) Lead Free	Yes		
7) Flammability	Not Flame Rated		

## Other

<b>Packaging</b>	
a) 500 FT	
b) 100 FT	
c) 25 FT	
	Packages may contain a Maximum of 3 lengths, 10 ft Minimum Length

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# EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: SW1

SW1 , RoHS-Compliant Commencing With 10/1/2004 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 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) 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.

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 its release. The information provided is designed only 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 be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA

11/9/2016

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