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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) ,<br>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)  |

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Authorized Signatory for the Alpha Wire:

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5/3/2017

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