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Customer Specification

PART NO. FIT-221L-1/8

Construction

| | |
|---|------------------------|
| 1) Tubing Type | Heat Shrinkable Tubing |
| 2) Tubing Material | LSZH Polyolefin |
| 3) Minimum Supplied ID(In) | 0.125 |
| 4) Maximum Recovered ID (In) | 0.062 |
| 5) Nominal Recovered Wall Thickness(In) | 0.017 |
| 6) Color(s) | BLACK |

Applicable Specifications

| | | |
|-------|--------------|------------------------------|
| 1) UL | Standard 224 | 125°C / 600 V _{RMS} |
| | VW-1 | |

Environmental

| | |
|-------------------------------------|---|
| 1) EU Directive 2011/65/EU(RoHS2): | |
| | All materials used in the manufacture of this part are in compliance with European Directive 2011/65/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's 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 the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see Alpha's REACH SVHC Declaration. |
| 3) California Proposition 65: | |
| | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. |

Properties

| Physical & Mechanical Properties | | |
|-----------------------------------|------------------------------|---------------|
| 1) Temperature Range | -55 to 125°C | |
| 2) Shrink Ratio | Approximately 2:1 | |
| 3) Full Recovery Temperature | 110°C | |
| 4) Minimum Shrink Temperature | 100°C | |
| 5) Tensile Strength | 1500psi, Min | ASTM D638 |
| 6) Elongation | 200%, Min | ASTM D638 |
| 7) Low Temperature Flex(-30°C) | no cracking | AMS-DTL-23053 |
| 8) Heat Resistance(158°C,168hrs) | 100% Elongation, Min | ASTM D638 |
| 9) Heat Shock(250°C,4hrs) | no cracking | AMS-DTL-23053 |
| 10) Secant Modulus | 2.5x10 ⁴ psi, Min | ASTM D882 |
| 11) Longitudinal Change | +/-5% | AMS-DTL-23053 |
| 12) Shelf Life | 25 Years @ 18 to 35°C | |
| Electrical Properties | | |
| Chemical Properties | | |
| 1) Water Absorption | 0.70%, Max | ASTM D570 |
| 2) Copper stability(158°C,168hrs) | 100% Elongation, Min | UL 224 |
| 3) Corrosion(158°C,16hrs) | no corrosion | AMS-DTL-23053 |
| 4) Halogen Free | Yes | |
| 5) Lead Free | Yes | |

Other

| Packaging | |
|-----------|--|
| 1) 500 FT | CR19-0.7: 19.75 x 0.75 x 8 Max. 3 pieces/Min length 50 FT. |

www.alphawire.com

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: FIT-221L-1/8

FIT-221L-1/8, RoHS-Compliant Commencing With 1/27/2014 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above is fully compliant with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS2), 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 this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item.** It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. 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 11364-2006.

| 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) |

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA

9/8/2019

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