



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification

PART NO. FIT-300-1/8

Construction

| | |
|---|---|
| 1) Tubing Type | Dual Wall Heat Shrinkable Tubing |
| 2) Tubing Material | Dual Wall Semi-Rigid XLPO |
| 3) Minimum Supplied ID(In) | 0.125 |
| 4) Maximum Recovered ID (In) | 0.023 |
| 5) Nominal Recovered Wall Thickness(In) | 0.038 |
| 6) Nominal Recovered Melt Wall (In) | 0.020 |
| 7) Color(s) | BLACK, WHITE, RED, YELLOW, BLUE, SLATE, BROWN |

Applicable Specifications

| | | |
|----------|--------------------------|------------------------------|
| 1) UL | VW-1 (Except Clear) | 125°C / 600 V _{RMS} |
| 2) Other | AMS-DTL-23053/4, Class 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. |

Properties

| Physical & Mechanical Properties | | |
|----------------------------------|--------------------------------|---------------|
| 1) Temperature Range | -55 to 125°C | |
| 2) Shrink Ratio | Approximately 2.5:1 | |
| 3) Full Recovery Temperature | 135°C | |
| 4) Minimum Shrink Temperature | 140°C | |
| 5) Tensile Strength | 1500psi, Min | ASTM D638 |
| 6) Elongation | 200%, Min | ASTM D638 |
| 7) Cold Impact(-55°C) | no cracking | ASTM D746 |
| 8) Heat Shock(250°C,4hrs) | no cracking | AMS-DTL-23053 |
| 9) Secant Modulus | 2.5×10^4 psi, Min | ASTM D882 |
| 10) Longitudinal Change | +1%/-10% | AMS-DTL-23053 |
| 11) Specific Gravity | 0.99, Max | ASTM D792 |
| 12) Shelf Life | 3 Years @ 18 to 35°C | |
| Electrical Properties | | |
| 1) Dielectric Strength | 500 V/mil, Min | ASTM D876 |
| 2) Volume Resistivity | 1×10^{16} ohm-cm, Min | ASTM D876 |
| Chemical Properties | | |
| 1) Water Absorption | 0.50%, Max | ASTM D570 |
| 2) Corrosion(0°C,16hrs) | no corrosion | AMS-DTL-23053 |
| 3) Fluid Resistance(23°C,24 Hrs) | 1000 PSI, Min | AMS-DTL-23053 |
| 4) Fungus Resistance | Pass | AMS-DTL-23053 |
| 5) Vacuum Outgassing - CVCM | 0.15%, Max | ASTM E595 |
| 6) Vacuum Outgassing - TML | 0.94%, Max | ASTM E595 |
| 7) Halogen Free | Yes | |
| 8) Lead Free | Yes | |

Other

| |
|-----------|
| Packaging |
|-----------|

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: FIT-300-1/8

FIT-300-1/8 , RoHS-Compliant Commencing With 6/1/2004 Production

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, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. 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 Company:

A handwritten signature in black ink, appearing to read 'Dave Watson'.

Dave Watson, Director of Engineering & QA

5/1/2013