



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

Customer Specification

PART NO. FIT-321-1/2

Construction

| | |
|--|---|
| 1) Tubing Type | Dual Wall Heat Shrinkable Tubing |
| 2) Tubing Material | Dual Wall Flexible PO w/Thick Wall Adhesive |
| 3) Minimum Supplied ID (In) | 0.470 |
| 4) Maximum Recovered ID (In) | 0.160 |
| 5) Nominal Recovered Wall Thickness (In) | 0.070 |
| 6) Nominal Recovered Melt Wall (In) | 0.030 |
| 7) Color(s) | BLACK |

Applicable Specifications

| | | |
|----------------------|--------------------------|------------------------------|
| 1) UL | All Tubing Flame Test | |
| | Standard 224 | 125°C / 600 V _{RMS} |
| 2) CSA International | Standard 198 | |
| 3) Other | AMS-DTL-23053/4, Class 3 | |

Environmental

| | |
|-----------------------------------|--|
| 1) EU Directive 2002/95/EC(RoHS): | All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture. |
| 2) 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 3:1 | |
| 3) Full Recovery Temperature | 110°C | |
| 4) Minimum Shrink Temperature | 110°C | |
| 5) Tensile Strength | 1500psi, Min | ASTM D638 |
| 6) Elongation | 250%, 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 | 2.5x10 ⁴ psi, Min | ASTM D882 |
| 10) Longitudinal Change | +1%/-15% | AMS-DTL-23053 |
| 11) Shelf Life | 3 Years @ 18 to 35°C | |
| Electrical Properties | | |
| 1) Dielectric Strength | 300 V/mil, Min | ASTM D876 |
| 2) Volume Resistivity | 1x10 ¹² ohm-cm, Min | ASTM D876 |
| Chemical Properties | | |
| 1) Water Absorption | 1.00%, Max | ASTM D570 |
| 2) Corrosion(0°C,16hrs) | no corrosion | AMS-DTL-23053 |
| 3) Fluid Resistance(23°C,24 Hrs) | 900 PSI, Min | AMS-DTL-23053 |
| 4) Fungus Resistance | Pass | AMS-DTL-23053 |
| 5) Halogen Free | No | |
| 6) Lead Free | Yes | |

Other

Packaging

www.alphawire.com

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:FIT-321-1/2

FIT-321-1/2, RoHS-Compliant Commencing With 12/1/2004 Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, 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 these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

| 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) |

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 Company:

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

Dave Watson, Director of Engineering & QA

12/27/2011

Mouser Electronics

Authorized Distributor

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[FIT3211/2 BK105](#) [FIT321V1/2 BK016](#) [F3211/2 BK105](#)