

Customer Specification PART NO. FIT-321-1/2

Construction

Dual Wall Heat Shrinkable Tubing
Dual Wall Flexible PO w/Thick Wall Adhesive
0.470
0.160
0.070
0.030
BLACK

Applicable Specifications

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

Environmental

	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) 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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EU/China 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 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)

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:

Dave Watson, Director of Engineering & QA

5/1/2013