

Request a Sample

# Customer Specification PART NO. FIT-221L-3/4

### Construction

1) Tubing Type	Heat Shrinkable Tubing		
2) Tubing Material	LSZH Polyolefin		
3) Minimum Supplied ID(In)	0.750		
4) Maximum Recovered ID (In)	0.375		
5) Nominal Recovered Wall Thickness(In)	0.027		
6) Color(s)	BLACK		

**Applicable Specifications** 

The manufacture of the amount of the same			
1) UL	Standard 224	125°C / 600 V <sub>RMS</sub>	
	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	-40 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 <sup>4</sup> psi, Min	ASTM D882			
11) Longitudinal Change	+/-5%	AMS-DTL-23053			
12) Shelf Life	25 Years @ 18 to 35°C				
Electrical Properties					
1) Volume Resistivity 1x10 <sup>14</sup> ohm-cm, Min		ASTM D876			
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

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www.alphawire.com

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

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# **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: FIT-221L-3/4

FIT-221L-3/4, RoHS-Compliant Commencing With 1/27/2014 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**. 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.

SubstanceMaximum Control ValueLead0.1% by weight (1000 ppm)Mercury0.1% by weight (1000 ppm)Cadmium0.01% by weight (1000 ppm)Hexavalent Chromium0.1% 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

Alpha Wire

711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000 8/7/2014