

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

Request a Sample

Customer Specification PART NO. FIT-221L-3/8

Construction

1) Tubing Type	Heat Shrinkable Tubing
2) Tubing Material	LSZH Polyolefin
3) Minimum Supplied ID(In)	0.375
4) Maximum Recovered ID (In)	0.187
5) Nominal Recovered Wall Thickness(In)	0.022
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	-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 ⁴ 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 ¹⁴ 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

Packaging

www.alphawire.com

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: FIT-221L-3/8

FIT-221L-3/8, 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.

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:

Dave Watson, Director of Engineering & QA Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000 7/29/2014