

Customer Specification

PART NO. FIT-221L-1IN

Construction

1) Tubing Type	Heat Shrinkable Tubing
2) Tubing Material	LSZH Polyolefin
3) Minimum Supplied ID(in)	1.000
4) Maximum Recovered ID (in)	0.500
5) Nominal Recovered Wall Thickness(in)	0.030
6) Color(s)	BLACK

Applicable Specifications

1) UL	Standard 224	125°C / 600 V _{RMS}
	VW-1	

Environmental

Properties

Physical & Mechanical Properties

1) Temperature Range	-55 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	2.5×10^4 psi, Min	ASTM D882
11) Longitudinal Change	+/-5%	AMS-DTL-23053
12) Shelf Life	25 Years @ 18 to 35°C	

Electrical Properties

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		
1) 200 FT	CR19.5-1.5: 19.5 x 1.5 x 8	Max. 3 pieces/Min length 25 FT.

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: FIT-221L-1IN

FIT-221L-1IN, RoHS-Compliant Commencing With 1/27/2014 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials is fully compliant with Directive 2011/65/ Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). This product also complies with the definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item.** It should be noted that this product is offered for cases where this product will be used within EEE that does not fit within the Directive's scope. Additionally, Alpha complies with the "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2006. This product is also in compliance with the RoHS Directive.

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)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	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 this document. It is not 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 to provide specific information for the product mentioned. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation to their specific product.

Authorized Signatory for the Alpha Wire:

A handwritten signature in blue ink, appearing to read "Debra W.".

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