

Customer Specification PART NO. ST-300-1IN

Construction

1) Tubing Type	Dual Wall Heat Shrinkable Tubing	
2) Tubing Material	Semi Rigid Cross Linked Polyolefin	
3) Minimum Supplied ID(In)	1.000	
4) Maximum Recovered ID (In)	0.400	
5) Nominal Recovered Wall Thickness(In)	0.075	
6) Nominal Recovered Melt Wall (In)	0.040	
7) Color(s)	BLACK	

Applicable Specifications

1) UL	Standard 224	
2) Other	AMS-DTL-23053/4, Class 1	

Environmental

	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) REACH Regulation (EC 1907/2006	3):	
	This product does not contain any of the 16 substances listed on the European Union's REACH Substance of Very High Concern (SVHC) candidate list in excess of 0.1% mass of the item.	

Properties

Physical & Mechanical Properties				
1) Temperature Range	-55 to 110°C			
2) Shrink Ratio	Approximately 3:1			
3) Full Recovery Temperature	140°C			
4) Minimum Shrink Temperature	110°C			
5) Tensile Strength	1500psi, Min	ASTM D638		
6) Elongation	200%, 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%/-10%	AMS-DTL-23053		
11) Specific Gravity	0.99, Max	ASTM D792		
12) Shelf Life	3 Years @ 18 to 35°C			
Electrical Properties				
1) Dielectric Strength	500 V/mil, Min	ASTM D876		
2) Volume Resistivity	1x10 ¹⁶ ohm-cm, Min	ASTM D876		
Chemical Properties				
1) Water Absorption	0.50%, Max	ASTM D570		
2) Corrosion(0°C,16hrs)	no corrosion	AMS-DTL-23053		
3) Fluid Resistance(23°C,24 Hrs)	1000 PSI, Min	AMS-DTL-23053		
4) Fungus Resistance	Pass	AMS-DTL-23053		
5) Vacuum Outgassing - CVCM	0.15%, Max	ASTM E595		
6) Vacuum Outgassing - TML	0.94%, Max	ASTM E595		
7) Halogen Free	Yes			
8) Lead Free	Yes			

www.alphawire.com

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

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure there accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.



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

EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: ST-300-1IN

ST-300-1IN, RoHS-Compliant Commencing With 2/2/2002 Production

This document certifies that the Alpha part number cited above are 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 these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance 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

1/30/2013