2200 US Highway 27 South
Richmond, IN 47374
Tel: 1-800-52 ALPHA
Web: www.alphawire.com

Customer Specification

PART NO. ST-303-3/4

Construction

1) Tubing Type	Dual Wall Heat Shrinkable Tubing
2) Tubing Material	Flexible Dual Lined Irradiated Polyolefin
3) Minimum Supplied ID(In)	0.748
4) Maximum Recovered ID (In)	0.236
5) Nominal Recovered Wall Thickness(In)	0.071
6) Nominal Recovered Melt Wall (In)	0.035
7) Color(s)	BLACK

Applicable Specifications

1) UL	Standard 224	
	All Tubing Flame Test	
2) CSA International	Standard 198	
3) Other	AMS-DTL-23053/4, Class 3	

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) 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) Minimum Shrink Temperature	110°C	
4) Tensile Strength	1500psi, Min	ASTM D638
5) Elongation	250%, Min	ASTM D638
6) Cold Impact(-55°C)	no cracking	ASTM D746
7) Heat Shock(250°C,4hrs)	no cracking	AMS-DTL-23053
8) Secant Modulus	$2.5x10^{4}$ psi, Min	ASTM D882
9) Longitudinal Change	+1%/-15%	AMS-DTL-23053
10) 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) Halogen Free	No	
5) Lead Free	Yes	

Other

Packaging
25X4 FT, 20 FT

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: ST-303-3/4

ST-303-3/4, RoHS-Compliant Commencing With 12/5/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). This product also complies with UK - RoHS. The reader is referred to these Directives for the specific definitions and extents of the Directives. **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 11364-2014. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

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 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:



Dave Watson, Director of Engineering 7/29/2024

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1232 SV001 5852 BL001 F221V1/8 BK103 782401 VI005 F2213/8 GR065 F3001/2 BK056 1855 WO005 3050 BR001 3075 VI005 461816 WH005 5854/7 YL001 7013 WH001 2842/7 BL005 6710 BL001 1853 YL005 3081 GR005 3252 YL005 5855 OR005 PF2001 NA005 1858/19 BR005 7130 BK005 1855 BK001 6300/3 SL005 6822 BK005 6822 WH001 2842/19 SL005 3051 SL001 3252 VI005 6715 YL005 F60011/2 BK008