

# Customer Specification PART NO. FIT-650-1/4

#### Construction

1) Tubing Type	Heat Shrinkable Tubing
2) Tubing Material	Flexible Fluoroelastomer
3) Minimum Supplied ID(In)	0.250
4) Maximum Recovered ID (In)	0.125
5) Nominal Recovered Wall Thickness(In)	0.035
6) Color(s)	BLACK

#### Applicable Specifications

1) Other	AMS-DTL-23053/13	
	Flammability - Self Extinguishing w/in 15 seconds	
2) Colors	Munsell® Component Extended Limits of Deviation	

### Environmental

1) EU Directive 2002/95/EC(RoHS):		
	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):		
	All materials used in the manufacture of this part do not appear on the EU REACH Substance of Very High Concern (SVHC) candiate list.	
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 200°C			
2) Shrink Ratio	Approximately 2:1			
3) Full Recovery Temperature	175°C			
4) Minimum Shrink Temperature	130°C			
5) Tensile Strength	1200psi, Min	ASTM D638		
6) Elongation	250%, Min	ASTM D638		
7) Heat Resistance(250°C,168hrs)	200% Elongation, Min	ASTM D638		
8) Longitudinal Change	+/-20%	AMS-DTL-23053		
9) Shelf Life	2 Years @ 18 to 35°C			
Electrical Properties				
1) Dielectric Strength	200 V/mil, Min	ASTM D876		
2) Volume Resistivity	1x10 <sup>9</sup> ohm-cm, Min	ASTM D876		
Chemical Properties				
1) Water Absorption	0.50%, Max	ASTM D570		
2) Corrosion(250°C,16hrs)	No Corrosion	AMS-DTL-23053		
3) Fluid Resistance(23°C,24 Hrs)	1200 PSI, Min	AMS-DTL-23053		
4) Fungus Resistance	Pass	AMS-DTL-23053		
5) Vacuum Outgassing - TML	0.10%, Max	ASTM E595		
6) Halogen Free	No			
7) Lead Free	Yes			

#### Other

Packaging

www.alphawire.com

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### **RoHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number:FIT-650-1/4

FIT-650-1/4, RoHS-Compliant Commencing With12/1/2004Production

This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, 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**.

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB) Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)
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

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