ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: FIT221MS-1 Issue: 2

Page 1 of 2 Pages Issue Date: 2/21/2013 Effective Date: 3/8/2013

A. Construction

Tubing Type
 Tubing Material
 Heat Shrinkable Tubing
 Cross Linked Polyolefin

3) Color(s) BLACK, RED, BLUE, GREEN, YELLOW

Part Number	Minimum	Maximum	Nominal
	Supplied ID	Recovered	Recovered Wall
	(In)	ID (In)	Thickness (In)
FIT221-3/64	0.046	0.023	0.016
FIT221-1/16	0.063	0.031	0.017
FIT221-3/32	0.093	0.046	0.020
FIT221-1/8	0.125	0.062	0.020
FIT221-3/16	0.187	0.093	0.020

B. Applicable Specifications

UL Standard 224
 CSA International Standard 198

3) Other AMS-DTL-23053/5 Class 1 (Except Clear)

C. Environmental Compliance

1) RoHS Directive (2011/65/EU):

All materials used in the manufacture of this part meet the requirements of European Directive 2011/65/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. No Exemptions are required for RoHS Compliance on this item. 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 <u>Alpha's REACH SVHC</u>

California Proposition 65:

The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

D. Physical & Mechanical Properties

Temperature Range
 Shrink Ratio
 Full Recovery Temperature
 Minimum Shrink Temperature
 90°C

Tensile Strength 5) 1500psi, Min ASTM D638 6) Elongation 200%, Min ASTM D638 Heat Shock(250°C,4hrs) no cracking 7) AMS-DTL-23053 Secant Modulus 2.5x10⁵ psi, Min 8) ASTM D882 Longitudinal Change 9) +/-5% AMS-DTL-23053 1.35, Max 10) Specific Gravity ASTM D792

E. Electrical Properties

Dielectric Strength
 Volume Resistivity
 Min
 ASTM D876
 ASTM D876
 ASTM D876

F. 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) Halogen Free No 6) Lead Free Yes

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their 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 has 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 CUSTOMER PRODUCT SPECIFICATION

Part Number: FIT221MS-1 Issue: 2

Page 2 of 2 Pages Issue Date: 2/21/2013 Effective Date: 3/8/2013

G. Other

1) Packaging

a) FIT221-3/64

6X6 IN

b) FIT221-1/16

6X6 IN

c) FIT221-3/32

6X6 IN

d) FIT221-1/8

6X6 IN

e) FIT221-3/16

6X6 IN

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their 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

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 has 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.