

# Customer Specification

## PART NO. FIT-105-MS-2

### Construction

1) Tubing Type		Heat Shrinkable Tubing (Assortment)		
2) Tubing Material		Irradiated PVC		
3) Color(s)		BLACK		
PartNumber	Minimum Supplied ID (In)	Maximum Recovered ID (In)	Nomiminal Recovered Wall Thickness (In)	Quantity
FIT-105-3/8	0.375	0.187	0.030	10 x 6 IN
FIT-105-1/2	0.500	0.250	0.030	10 x 6 IN
FIT-105-3/4	0.750	0.375	0.035	10 x 6 IN
FIT-105-1IN	1.000	0.500	0.045	10 x 6 IN

### Applicable Specifications

1) UL	VW-1	
	Standard 224	
2) CSA International	Standard 198	105°C
3) Other	AMS-DTL-23053/2 Class1 Exc Longitudinal Shrinkage	

### 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) 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 Alpha's REACH SVHC Declaration.
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	-20 to 105°C	
2) Shrink Ratio	Approximately 2:1	
3) Full Recovery Temperature	105 °C	
4) Minimum Shrink Temperature	100°C	
5) Tensile Strength	3000psi, Min	ASTM D638
6) Elongation	300%, Min	ASTM D638
7) Cold Impact(-55°C)	no cracking	ASTM D746
8) Heat Shock(180°C,4hrs)	no cracking	AMS-DTL-23053
9) Secant Modulus	2.5x10 <sup>4</sup> psi, Min	ASTM D882
10) Longitudinal Change	+1%/-25%	AMS-DTL-23053
11) Specific Gravity	1.32, Max	ASTM D792
12) Shelf Life	1 Years @ 18 to 35°C	
Electrical Properties		
1) Dielectric Strength	1083 V/mil, Min	ASTM D876
2) Volume Resistivity	1x10 <sup>12</sup> 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) Fungus Resistance	Pass	AMS-DTL-23053
4) Halogen Free	No	
5) Lead Free	Yes	

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# EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: FIT-105-MS-2

FIT-105-MS-2, RoHS-Compliant Commencing With 10/1/2007 Production

This document certifies that the Alpha part number cited above is 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 this Directive for the specific definitions and extents of this Directive. **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 11364-2006.

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)

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Authorized Signatory for the Alpha Wire Company:

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