



Alpha Wire Company
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Product Specification: FIT - 105

Date Issued: 1/24/00

Revised: 10-15-2004

Product Description: Highly flame retardant, irradiated polyvinylchloride heat shrinkable tubing, MIL-I-23053/2C Class 2*.

Note: All dimensions are in inches unless otherwise specified.

Construction Requirements

Physical Properties:

Operating Temperature Range	-35°C to 105°C
Shrinkage Ratio	Approximately 2:1 at 175°C
Dimensions	Shall Conform To Table 1
Tensile Strength	2600 psi
Ultimate Elongation	250%
Longitudinal Shrinkage	10%
Secant Modulus	2.5×10^4
Specific Gravity	1.40
Heat Shock (4 Hours at 200°C)	No Dripping, Flowing Or Cracking
Cold Impact @ -10°C	No Cracking

Electrical Properties:

Dielectric Strength	750 Volts/mil
Volume Resistivity	10^{12} Ohm/cm

***INACTIVE MILITARY SPECIFICATION**

Chemical Properties:

Corrosive Effect	No Corrosion
Flammability	Self-Extinguishing, UL VW-1
Water Absorption	1%, Maximum
Fungus Resistance	No Growth

Shelf Life:

Material shall have a storage life of 1 year from date of shipment from Alpha Wire provided the product is stored at temperatures between 65°F and 95°F. If properly stored the product shall conform to the “as supplied” inside diameter (ID).

Table 1

<u>Alpha Part Number</u>	<u>Minimum Supplied I.D.</u>	<u>Maximum Recovered I.D.</u>	<u>Nominal Recovered Wall Thickness</u>
FIT-105-3/64	0.046	0.023	0.020
FIT-105-1/16	0.062	0.031	0.020
FIT-105-3/32	0.093	0.046	0.020
FIT-105-1/8	0.125	0.062	0.025
FIT-105-3/16	0.187	0.093	0.025
FIT-105-1/4	0.250	0.125	0.025
FIT-105-3/8	0.375	0.187	0.030
FIT-105-1/2	0.500	0.250	0.030
FIT-105-3/4	0.750	0.375	0.035
FIT-105-1	1.000	0.500	0.040
FIT-105-1-1/2	1.500	0.750	0.045
FIT-105-2	2.000	1.000	0.050