



Product Specification: FIT-750

Date Issued: 04/25/00

Date Revised 07/21/04

Product Description: This specification covers an electrical insulating, flexible, polyolefin, heat shrinkable tubing. The tubing shall consist of crosslinked outer wall with an adhesive thermoplastic inner lining. It shall be homogeneous and essentially free from flaws, pinholes, defects, cracks, seams and inclusions. The adhesive will bond to a wide variety of plastics, rubbers and metals.

Note: All dimensions are in inches unless otherwise specified.

Applicable Specifications:

Insulation Sleeving, Electrical,
Heat Shrinkable, Polyolefin,
Dual-Wall, Outer Wall Crosslinked

AMS-DTL-23053/4
Class 2

Physical Properties:

Operating Temperature Range	-55°C To 110°C
Shrinkage Ratio	Approximately 2:1 @ 121°C
Dimensions	Shall Conform To Table 1
Tensile Strength	1500 psi
Ultimate Elongation	200%
Longitudinal Shrinkage	5%, Nominal
Specific gravity	1.35
Heat Aging (336 Hrs at 175°C)	
Ultimate Elongation	150%

Electrical:

Dielectric strength	500 Volts/mil
Volume resistivity	10^{12} Ohm/cm

Chemical:

Corrosive Effect	Non-Corrosive
Flammability	Self-Extinguishing Does Not Support Combustion
Outer Wall	
Water Absorption	0.5% Maximum
24 hours at 25°C	

Adhesive:

Thickness	0.005
Low Temperature Brittleness	-20°C
Peel Strengths	
Polyethylene	15 Lb/in. Width
Neoprene	10 Lb/in. Width
Polyvinylchloride	10 Lb/in. Width
Steel	15 Lb/in. Width
Lead	5 Lb/in. Width

TABLE 1: DIMENSIONAL INFORMATION

Alpha Part Number	Supplied ID, Min.	Recovered ID, Max.	Recovered Total Wall Thickness, Nom. ¹	Recovered Adhesive Wall Thickness, Nom. ¹
FIT-750-1/4	0.250	0.125	.029	.005
FIT-750-3/8	0.375	0.187	.029	.005
FIT-750-1/2	0.500	0.250	.030	.006
FIT-750-3/4	0.750	0.375	.035	.006
FIT-750-1	1.000	0.500	.042	.008
FIT-750-1-1/2	1.500	0.750	.047	.011

¹ After Unrestricted Shrinkage