



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
Shrinkage Ratio
Dimensions
Tensile Strength
Ultimate Elongation
Longitudinal Shrinkage
Specific gravity
Heat Aging (336 Hrs at 175°C)
Ultimate Elongation

-55°C To 110°C
Approximately 2:1 @ 121°C
Shall Conform To Table 1
1500 psi
200%
5%, Nominal
1.35
150%

Electrical:

Dielectric strength
Volume resistivity

500 Volts/mil
10¹² Ohm/cm

Chemical:

Corrosive Effect
Flammability
Outer Wall

Non-Corrosive

Self-Extinguishing Does Not Support
Combustion

Water Absorption
24 hours at 25°C

0.5% Maximum

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