ALPHA WIRE COMPANY CUSTOMER PRODUCT SPECIFICATION

Part Number: FIT-700 Page 1 of 2 Pages	Issue: Issue Date: Effective Date:	3 08/2/2004 08/2/2004		
-NOTE: ALL DIMENSIONS ARE IN - REQUIREMENTS ARE FOR BOTH TUBING				
CONST	RUCTION			
Product		Heavy Wall Heat Shrinkable Tubing of Irradiated Polyolefin with Thermoplastic Bonding Layer.		
PHYSICAL	PROPERTIES			
Shrink ratio Shrink Temperature (Full Recovery) Appearance	5	121°C, Nom. Homogeneous Surface, Free From Pinholes, Defects, Cracks, And		
Dimensions Color (Tubing) Color (Sealant) Sealant Performance	See Table 1 Black Natural The sealant material s	See Table 1 Black		
Temperature Rating, Continuous Sealant Softening Point (ASTM E28) Low Temperature Flex (ASTM D2671) Tensile Strength	-55°C to + 90°C 92°C± 5°C Pass @ 4 Hrs. @ -55 Sizes 21 thru 24: 210 Sizes 25 thru 26: 225	-55°C to + 90°C		
Ultimate Elongation	Sizes 21 thru 24: 600 Sizes 25 thru 26: 350			
ELECTRICAL	_ PROPERTIES			
Dielectric Strength (ASTMD149)	Sizes 21 thru 24: 50	0 V/mil, Min.		

Sizes 21 thru 24: 500 V/mil, Min. Sizes 25 thru 26: 350 V/mil, Min. 2.90, Nominal Sizes 21 thru 24: 10^{16} Ohm-cm Sizes 25 thru 26: 10^{15} Ohm-cm 10^{14} Ohm-Cm, Min.

FLAMMABILITY

Flammability

Dielectric Constant (Tubing)

Volume Resistivity (Sealant)

Volume Resistivity (ASTM D257)

Not Flame Rated

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CHEMICAL PROF	ERTIES	
Specific Gravity (ASTM D792) Water Absorption (ASTM D570) Water Absorption (Sealant) Water Penetration (ASTMD706) Corrosion Resistance (ASTM D2671) Fungus Resistance (ASTM G-21) Color Stability (AMS-DTL-23053/15) Fluid Resistance (AMS-DTL-23053/15)	1.09 0.1%, Max. 0.1% Max No Penetration @ 236 hrs., Continuous Immersion Pass Pass Pass Pass @ 24 Hours @ Room Temperature for: MIL-A-8243 Deicing Fluid MIL-H-5606 Hydraulic Fluid MIL-H-5606 Hydraulic Fluid MIL-T-5624 JP-8 MIL-L-7808 Lubricating Oil MIL-L-23699 Lubricating Oil Immersion in 5% NaCl Solution	
Retained Tensile/ Elongation After Immersion In Fluids (AMS-DTL-23053/15)	750 psi/100% Min.	
OTHER SPECIFIC	ATIONS	

Military

ASM-DTL-23053, As Defined Here-In

TABLE 1: DIMENSIONAL INFORMATION					
Alpha Part	Supplied ID,	Recovered	Recovered Wall		
Number	Min.	ID, Max.	Thickness, Nom. ¹		
FIT-700-21	0.75	0.24	0.09		
FIT-700-22	1.10	0.35	0.12		
FIT-700-23	1.50	0.47	0.16		
FIT-700-24	2.00	0.63	0.16		
FIT-700-25	3.00	1.25	0.16		
FIT-700-26	4.50	1.75	0.16		

TABLE 3: CUT LENGTH TOLERANCE INFORMATION			
FIT Tubing Length, Inches	FIT Tubing Diameter, Inches		
	1.7 – 2.75	3.5 – 6.7	
To 12-Inches	±1⁄8	±¼	

 $^{^1\,}$ Nominal recovered wall thickness is for the uncoated material; add 0.05-inches to include coating thickness.