
ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: FIT-221
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Issue: 5
Issue Date: 8/12/2004
Effective Date: 8/12/2004

-NOTE: ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED-

CONSTRUCTION

Product	Heat Shrinkable Tubing
Material	Irradiated Polyolefin

PHYSICAL PROPERTIES

Shrink ratio	Approximately 2:1
Minimum Shrink Temperature	95°C, Nominal
Full Recovery Temperature	121°C, Min.
Appearance	Homogeneous Surface, Free From Pinholes, Defects, Cracks, Seams, Inclusions and Chemical Bloom
Dimensions	See Table 1
Colors	Black, White, Red, Yellow, Blue and Clear.
Temperature Rating, Continuous	-55°C to + 135°C
Tensile Strength	1500 psi, Min.
Ultimate Elongation	200%, Min.

ELECTRICAL PROPERTIES

Dielectric Strength	500 Volts/Mil, Min.
Maximum Dielectric Constant	3.1, Colors 2.7, Clear
Volume Resistivity	10 ¹⁴ Ohm-Cm, Min.

FLAMMABILITY

Flammability	
Colors	Flame Retardant
Clear	Non-Flame retardant

CHEMICAL PROPERTIES

Water Absorption	0.5%, Max.
Color Stability	Meets AMS-DTL-23053/5 Requirements

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FINISHED PRODUCT REQUIREMENTS

Product Print Legend
Governing Documents

None
UL Standard 224 (All Colors except Clear)
CSA C22.2 No. 198 (All Colors except Clear)
AMS-DTL-23053
AMS-DTL-23053/5 Class 1 (All Colors except Clear)
AMS-DTL-23053/5 Class 2 (Clear Only)

Alpha Part Number	Supplied ID, Min.	Recovered ID, Max.	Recovered Wall Thickness, Nom.
FIT-221-3/64	0.046	0.023	0.016
FIT-221-1/16	0.063	0.031	0.017
FIT-221-3/32	0.093	0.046	0.020
FIT-221-1/8	0.125	0.062	0.020
FIT-221-3/16	0.187	0.093	0.020
FIT-221-1/4	0.250	0.125	0.025
FIT-221-3/8	0.375	0.187	0.025
FIT-221-1/2	0.500	0.250	0.025
FIT-221-3/4	0.750	0.375	0.030
FIT-221-1	1.000	0.500	0.035
FIT-221-1-1/2	1.500	0.750	0.040
FIT-221-2	2.000	1.000	0.045
FIT-221-3	3.000	1.500	0.050
FIT-221-4	4.000	2.000	0.055