



1-800-52-ALPHA

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Part #	Shrink Ratio	Material	Min Supplied ID	Max Recovered ID	Nom Recovered Wall	Temperature	Ratings
FIT-221-1/2	2:1	XLPO	0.5	0.25	0.025	-55 to 135	AMS DTL-23053/5 CL 1 Colors, AMS DTL-23053/5 CL 2 Clear, CA Prop 65, CSA 198, UL 224

PART NO. FIT-221-1/2



This picture is representative only and may not match the specific configuration of the product listed on this page. Please refer to the product specifications for more information on this part number and its exact configuration.

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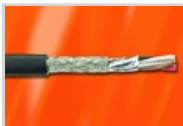
Construction

1) Tubing Type	Heat Shrinkable Tubing
2) Tubing Material	Cross Linked Polyolefin
3) Minimum Supplied ID(In)	0.500
4) Maximum Recovered ID (In)	0.250
5) Nominal Recovered Wall Thickness(In)	0.025
6) Color(s)	BLACK, WHITE, CLEAR, RED, YELLOW, BLUE, GREEN, ORANGE

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Xtra-Guard® Performance Cable

Alpha Wire's Xtra-Guard® cable brings performance and reliability to the biggest challenges in the toughest environments. No matter what extremes your application faces, you'll find an Xtra-Guard cable that excels in meeting your requirements.



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The perfect accessory...

Heat Guns

Alpha heat guns are the perfect complement to our tubing, making it easy to apply FIT tubing quickly and efficiently.



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Applicable Specifications

1) UL	Standard 224 (Except Clear) 600V
2) CSA International	Standard 198 (Except Clear) 600V
3) Other	AMS-DTL-23053/5 Class 1 (Except Clear) AMS-DTL-23053/5 Class 2 (Clear Only)

Environmental

1) EU Directive 2011/65/EU(RoHS2):	All materials used in the manufacture of this part are in compliance with European Directive 2011/65/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for RoHS C of C.
2) REACH Regulation (EC 1907/2006):	This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see Alpha's REACH SVHC Declaration.
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-55 to 135°C
2) Shrink Ratio	Approximately 2:1
3) Full Recovery Temperature	121°C
4) Minimum Shrink Temperature	90°C
5) Tensile Strength	1500psi, Min ASTM D638
6) Elongation	200%, Min ASTM D638

7) Low Temperature Flex(-55°C)	no cracking	AMS-DTL-23053
8) Heat Shock(250°C,4hrs)	no cracking	AMS-DTL-23053
9) Secant Modulus	2.5x10 ⁴ psi, Min	ASTM D882
10) Longitudinal Change	+/-5%	AMS-DTL-23053
11) Specific Gravity(Colors)	1.35, Max	ASTM D792
Specific Gravity(Clear)	1.00, Max	
12) Shelf Life	5 Years @ 18 to 35°C	
Electrical Properties		
1) Dielectric Strength	500 V/mil, Min	ASTM D876
2) Volume Resistivity	1x10 ¹⁴ ohm-cm, Min	ASTM D876
Chemical Properties		
1) Water Absorption	0.50%, Max	ASTM D570
2) Corrosion(0°C,16hrs)	no corrosion	AMS-DTL-23053
3) Fluid Resistance(23°C,24 Hrs)	1000 PSI, Min	AMS-DTL-23053
4) Fungus Resistance	Pass	AMS-DTL-23053
5) Vacuum Outgassing - CVCM	0.10%, Max	ASTM E595
6) Halogen Free	No	
7) Lead Free	Yes	

Other

Packaging

1) 150 FT	CR6.5-6:	6.5 x 6 x 3.25	Max. 3 pieces/Min length 25 FT.
2) 50 FT	CR6.5-3:	6.5 x 3 x 3.25	Continuous length
3) 32 FT	CR10-2:	10 x 2 x 6	Continuous length
4) 5X4 FT	FIT 2X2:	2 x 2 x 49	Continuous length
5) 14X6 IN	PLASTIC BAG		Continuous length

Notes

- 1) Orange available for 1/2 - 150 ft, 3/4 - 250 ft, 1IN - 250 ft, 1 1/2IN - 125ft and 2IN - 125 ft sizes.

Our FIT heat-shrink tubing offers a reliable way to protect and seal terminations or add additional mechanical ruggedness. FIT preferred heatshrink products are made from premium compounds under the tightest manufacturing controls. This means FIT will consistently have excellent physical characteristics such as low longitudinal shrinkage and wide temperature ranges while providing an elegant appearance when used alone or on OEM equipment.

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