

## Customer Specification

### PART NO. FIT-CLEAR-1/4

## Construction

1) Tubing Type	Heat Shrinkable Tubing
2) Tubing Material	Irradiated PVDF (Kynar)
3) Minimum Supplied ID(In)	0.250
4) Maximum Recovered ID (In)	0.125
5) Nominal Recovered Wall Thickness(In)	0.012
6) Color(s)	CLEAR

## Applicable Specifications

1) UL	Standard 224	150°C
	VW-1	
2) Other	AMS-DTL-23053/18, Class 1	
	Flammability - Passes	

## 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 <a href="#">RoHS C of C</a> .
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 <a href="#">Alpha's REACH SVHC Declaration</a> .
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 175°C	
2) Shrink Ratio	Approximately 2:1	
3) Full Recovery Temperature	150 °C	
4) Tensile Strength	3500psi, Min	ASTM D638
5) Elongation	200%, Min	ASTM D638
6) Low Temperature Flex(-55°C)	no cracking	AMS-DTL-23053
7) Heat Resistance(250°C,168hrs)	100% Elongation, Min	ASTM D638
8) Heat Shock(275°C,4hrs)	no cracking	AMS-DTL-23053
9) Secant Modulus	1x10 <sup>5</sup> psi, Min	ASTM D882
10) Longitudinal Change	+/-10%	AMS-DTL-23053
11) Specific Gravity	2.00, Max	ASTM D792
12) Deformation(125°C,1 hr)	50% Max	UL 224
13) Shelf Life	5 Years @ 18 to 35°C	
Electrical Properties		
1) Dielectric Strength	400 V/mil, Min	ASTM D876
2) Volume Resistivity	1x10 <sup>11</sup> ohm-cm, Min	ASTM D876
Chemical Properties		
1) Water Absorption	0.50%, Max	ASTM D570
2) Copper stability(250°C,168hrs)	70% Elongation, Min	UL 224
3) Corrosion(250°C,16hrs)	no corrosion	AMS-DTL-23053
4) Fluid Resistance(23°C,24 Hrs)	2000 PSI, Min	AMS-DTL-23053
5) Fungus Resistance	Pass	AMS-DTL-23053
6) Vacuum Outgassing - CVCM	0.10%, Max	ASTM E595
7) Vacuum Outgassing - TML	1.00%, Max	ASTM E595
8) Halogen Free	No	
9) Lead Free	Yes	

# Other

Packaging	
100 FT	

[www.alphawire.com](http://www.alphawire.com)

Alpha Wire  
2200 US Highway 27 South  
Richmond, IN 47374

Tel: 1-800-52 ALPHA

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**Alpha** 2011/65/EU RoHS2 2015/863/EU  
RoHS SJ/T 11364-2014

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Lead

Mercury

Cadmium

## Hexavalent Chromium

### Polybrominated Biphenyls (PBB)

### Polybrominated Diphenyl Ethers (PBDE),

Including Deca-BDE

Bis(2-ethylhexyl) phthalate (DEHP)

Butyl benzyl phthalate (BBP)

Dibutyl phthalate (DBP)

Diisobutyl phthalate (DIBP)

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0.01% (100 ppm)

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