

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Request a Sample

Customer Specification PART NO. FIT-KIT-221C

Construction

1) Tubing Type			Heat Shrinkable Tubing (Assortment)		
2) Tubing Material			Cross Linked Polyolefin		
3) Color(s)			BLACK, WHITE, CLEAR, RED, YELLOW, BLUE, GREEN		
PartNumber	Minimum Supplied ID (In)	Maximum Recovered ID (In)		Nomiminal Recovered Wall Thickness (In)	Quantity
FIT-221-3/32	0.093	0.046		0.020	28 x 6 IN (4 each color)
FIT-221-1/8	0.125	0.062		0.020	21 x 6 IN (3 each color)
FIT-221-3/16	0.187	0.093		0.020	21 x 6 IN (3 each color)
FIT-221-1/4	0.250	0.125		0.025	21 x 6 IN (3 each color)
FIT-221-3/8	0.375	0.187		0.025	14 x 6 IN (2 each color)
FIT-221-1/2	0.500	0.250		0.025	14 x 6 IN (2 each color)

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		

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: FIT-KIT-221C

FIT-KIT-221C, RoHS-Compliant Commencing With 3/1/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014.

Maximum Control Value
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000 1/25/2019