

# Customer Specification

## PART NO. 9217

### Construction

				Diameters (In)	
1) Component 1		1 X 1 COAX			
a) Conductor		10 (1/.106) AWG BC		0.106	
b) Insulation		0.132" Wall, Nom. Polyethylene(PE)		0.370	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	NATURAL				
Individually Applied:					
c) Shield		BC BRAID Shield,95% Coverage, Min.			
2) Shield		BC BRAID Shield,95% Coverage, Min.			
3) Jacket		0.056" Wall, Nom.,Type IIA PVC		0.545+/- 0.010	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N 9217 RG 217/U ROHS * = Factory Code			

### Applicable Specifications

1) Military	MIL-C-17D/78A RG-217/U	60°C / 5200 V <sub>RMS</sub>
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### Environmental

1) EU Directive 2002/95/EC(RoHS):	
	All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.
2) 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	-20 to 60°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	120 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	5200 V <sub>RMS</sub>
2) Characteristic Impedance	50 +/- 2
3) Ground Capacitance	30.8 pf/ft @1 kHz, Nominal
4) Velocity of Propagation	66 %
5) Conductor DCR	0.92 /1000ft @20°C, Nominal
6) OA Shield DCR	0.75 /1000ft @20°C, Nominal
7) Voltage Withstanding	12 kV, Minimum
8) Corona Extinction	7 kV, Minimum
9) Attenuation, Max dB/100ft	1 @ 50 MHz
	6.9 @ 1 GHz
	14 @ 3 GHz

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	30 x 14 x 12 Continuous length
b) 500 FT	20 x 11 x 8 Continuous length
c) 100 FT	16 x 11 x 8 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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

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Tel: 1-800-52 ALPHA (25742)

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## RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:9217

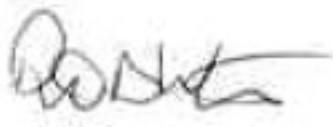
9217 , RoHS-Compliant Commencing With9/1/2005Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

<b>Substance</b>	<b>Maximum Control Value</b>
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE) Including Deca-BDE	0.1% by weight (1000 ppm)

*The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.*

Authorized Signatory for the Alpha Wire Company:



Dave Watson, Director of Engineering & QA

11/2/2012

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