

## Customer Specification

### PART NO. 9217

## Construction

						Diameter ("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

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1) EU Directive 2011/65/EU(RoHS2):	
	All materials used in manufacturing 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. Refer to the <a href="#">RoHS Certificate of Compliance</a> for more detail.
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:	Outer surface materials used in manufacturing 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. max.
Electrical Properties	
	<i>Engineering purposes only</i>
1) Voltage Rating	5200 V <sub>RMS</sub>
2) Characteristic Impedance	50 $\omega$ +/- 2
3) Ground Capacitance	30.8 pf/ft @1 kHz, Nominal
4) Velocity of Propagation	66 %
5) Conductor DCR	0.92 $\omega$ /1000ft. @20°C, Nominal
6) OA Shield DCR	0.75 $\omega$ /1000ft. @20°C, Nominal
7) Voltage Withstanding	12 kV, min.
8) Corona Extinction	7 kV, min.
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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# EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 9217

9217, RoHS-Compliant Commencing With 9/1/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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). This product also complies with UK - RoHS. 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. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

Substance	Maximum Control Value
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)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 4/2/2025

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