

Customer Specification

PART NO. 9159

Construction

						Diameter ("in")	
1) Component 1						1 x 1 COAX	
a) Conductor						23 (SOLID) AWG BCW	0.023
b) Insulation						0.0545" Wall, Nom. FEP	0.132
(1) Color(s)							
Cond	Color	Cond	Color	Cond	Color		
1	NATURAL						
2) Shield						BC BRAID Shield, 95% Coverage (min.)	
3) Jacket						0.015" Wall, Nom. PVDF	0.190+/- 0.004
a) Color(s)						BLACK	
b) Print						ALPHA WIRE-* P/N 9159 RG 59B/U TYPE 23 AWG SHIELDED TYPE CL2P OR CMP 125C (UL) OR C(UL) CMP FT6 CE ROHS * = Factory Code <i>Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.</i>	

Applicable Specifications

1) UL	CL2P	125°C
	CMP	125°C
2) CSA International	CMP	125°C
	FT6	
3) Military	MIL-C-17/RG 59B/U Type	
4) CE	EU Low Voltage Directive 2006/95/EC	

Environmental

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1) CE: EU Directive 2011/65/EU(RoHS2)	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Refer to the RoHS Certificate of Compliance .
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, see Alpha's REACH SVHC Declaration .
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	-55 to 125°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	11.3 lbs. max.
Electrical Properties <i>Engineering purposes only</i>	
1) Voltage Rating	1700 V _{RMS}
2) Characteristic Impedance	75 ω +/- 3
3) Ground Capacitance	19.5 pf/ft @1 kHz, Nominal
4) Velocity of Propagation	69.5 %
5) Conductor DCR	51.8 ω/1000ft @20°C, Nominal
6) OA Shield DCR	2.5 ω/1000ft @20°C, Nominal
7) Voltage Withstanding	1.7 kV, Minimum
8) Corona Extinction	2.3 kV, Minimum
9) Attenuation (max. dB/100ft)	3.9 @ 100 MHz
	8.7 @ 400 MHz

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 6 x 3.5 Continuous Length
	<i>Spool dimensions may vary slightly.</i>

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SpecPDFFooterConfidential



EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 9159

9159, RoHS-Compliant Commencing With 01/11/2004 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 Union (2011/65/EU), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitions. **Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control"

Substance

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)

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)

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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 issuance. This document is intended to provide guidance 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 provide regulatory information for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulatory requirements. Authorized Signatory for the Alpha Wire:

A handwritten signature in blue ink, appearing to read 'QBW', with a long horizontal line extending to the right.

Dave Watson, Director of Engineering & QA 01/08/2025

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