

Customer Specification

PART NO. 9851

Construction

						Diameter ("in")	
1) Component 1						1 x 1 COAX	
a) Conductor						30 (7/38) AWG Silver Plated Copper Non-Magnetic	0.0120
b) Insulation						0.0105" Wall, Nom. FEP	0.0330
(1) Color(s)							
Cond	Color	Cond	Color	Cond	Color		
1	CLEAR						
2) Shield						Non-Magnetic Silver Plated Copper BRAID Shield,95% Coverage (min.)	
3) Jacket						0.010" Wall, Nom., FEP	0.070+/- 0.003
a) Color(s)						CLEAR, BLACK, BROWN, RED, ORANGE, YELLOW, GREEN, BLUE, VIOLET, SLATE, WHITE.	

Applicable Specifications

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Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3)	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No exemptions are required for RoHS Compliance on this item.
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.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-70 to 200°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	2.15 lbs. max.
Electrical Properties	
Engineering purposes only	
1) Voltage Rating	1000 V _{RMS}
2) Characteristic Impedance	50 ω +/- 2
3) Ground Capacitance	29.3 pF/ft. @1 kHz, Nominal
4) Velocity of Propagation	70 %
5) Conductor DCR	241 ω /1000ft. @20°C, Nominal
6) Attenuation (max. dB/100ft.)	14.1 @ 100 MHz
	29.3 @ 400 MHz
	48.9 @ 1 GHz

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 100 FT	2.75 x 2 x 1.125 Continuous Length
	Spool dimensions may vary slightly.

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 9851

9851, RoHS-Compliant Commencing With 1/1/0001 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

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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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 11/21/2025

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