



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

# Customer Specification

## PART NO. 9055B

### Construction

		Diameters (In)			
1) Component 1	1 X 1 COAX				
a) Conductor	20 (SOLID) AWG SPC				
b) Insulation	0.042" Wall, Nom. Polyethylene(PE)	0.116			
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	CLEAR				
c) Cabling	1 COAX Cabled				
d) Shield	TC BRAID Shield, 95% Coverage, Min.				
2) Shield	TC BRAID Shield, 95% Coverage, Min.				
3) Jacket	0.020" Wall, Nom., Polyethylene (PE)	0.201+-0.005			
a) Color(s)	BLACK				
b) Print	ALPHA WIRE-* P/N 9055B RG 55B/U ROHS * = Factory Code				

### Applicable Specifications

1) Military	MIL-C-17D/26A RG 55B/U	
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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	-55 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	17.3 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	1400 V <sub>RMS</sub>
2) Characteristic Impedance	53.5 +/- 2.5
3) Ground Capacitance	28.8 pf/ft @1 kHz, Nominal
4) Velocity of Propagation	66 %
5) Conductor DCR	10.1 /1000ft @20°C, Nominal
6) OA Shield DCR	2.5 /1000ft @20°C, Nominal
7) Voltage Withstanding	5 kV, Minimum
8) Corona Extinction	1.9 kV, Minimum
9) Attenuation, Max dB/100ft	4.2 @ 100 MHz
	11.7 @ 400 MHz
	16 @ 1 GHz

## Other

1) Packaging	
a) 1000 FT	
b) 500 FT	
c) 100 FT	

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## RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 9055B

9055B, RoHS-Compliant Commencing With 11/1/2004 Production

*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.***

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% 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:

A handwritten signature in black ink, appearing to read 'Dave Watson'.

Dave Watson, Director of Engineering & QA

1/21/2011