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

Customer Specification

PART NO. 9180B

Construction

				Diameters (In)	
1) Component 1		1 X 1 COAX			
a) Conductor		30 (7/38) AWG SCW		0.012	
b) Insulation		0.045" Wall, Nom. PTFE		0.102	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	CLEAR				
2) Shield		SPC BRAID Shield,91% Coverage, Min.			
3) Jacket		0.010" Wall, Nom.,FEP		0.141+/- 0.004	
a) Color(s)		NATURAL TAN			

Applicable Specifications

1) Military	MIL-C-17/RG 180B/U	200°C / 1100 V_{RMS}

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 200°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	3.8 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	1100 V_{RMS}
2) Characteristic Impedance	95 +/- 5
3) Ground Capacitance	15.4 pf/ft @1 kHz, Nominal
4) Velocity of Propagation	70 %
5) Conductor DCR	241 /1000ft @20°C, Nominal
6) OA Shield DCR	6.6 /1000ft @20\°C, Nominal
7) Voltage Withstanding	2 kV, Minimum
8) Corona Extinction	1.5 kV, Minimum
9) Attenuation, Max dB/100ft	17 @ 400 MHz

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 4.5 x 3.5 Max. 3 separate pieces; Min length/piece 100 FT.
b) 500 FT	6.5 x 6 x 1.9 Max. 2 separate pieces; Min length/piece 100 FT.
c) 100 FT	6.5 x 2 x 1.9 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:9180B

9180B , RoHS-Compliant Commencing With8/1/2005Production

This document certifies that the Alpha part numbers cited above are manufactured in accordancewith 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 hazardoussubstances used in the manufacture of electrical and electronic equipment. The reader is referredto these Directives for the specific definitions and extents of these Directives. ***No Exemptions arerequired 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	0.01% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB) Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)
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'sknowledge, information and belief at the date of its release. The information provided is designedonly as a general guide for the safe handling, storage, and any other operation of the productitself or the one that it will become part of. The intent of this document is not to be considered awarranty or quality specification. Regulatory information is for guidance purposes only. Productusers are responsible for determining the applicability of legislation and regulations based ontheir individual usage of the product.

Authorized Signatory for the Alpha Wire Company:



Dave Watson, Director of Engineering & QA 11/2/2012

Mouser Electronics

Authorized Distributor

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Alpha Wire:
9180B CL001