

Customer Specification

PART NO. 9830

Construction

				Diameters (In)	
1) Component 1		1 X 1 COAX			
a) Conductor		22 (SOLID) AWG BCW			
b) Insulation		0.0605" Wall, Nom. Polyethylene(PE)		0.146	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	NATURAL				
2) Shield		BC BRAID Shield,85% Coverage, Min.			
3) Jacket		0.037" Wall, Nom.,Type I PVC		0.242+/- 0.006	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N 9830 RG-59/U TYPE 450MHZ 1C22 SHIELDED 60C EXXXXX AWM 1354 OR (UL) CMX C(UL) (SEQ FOOTAGE -2FT) * = Factory Code			

Applicable Specifications

1) UL	AWM/STYLE 1354	60°C / 30 V _{RMS}
	CMX	60°C
2) CSA International	C(UL) TYPE CMX	60°C
3) Military	JAN-C-17A / RG-59/U	

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) REACH Regulation (EC 1907/2006):	All materials used in the manufacture of this part do not appear on the EU REACH Substance of Very High Concern (SVHC) candiate list.
3) 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	-20 to 60°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	9.6 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	1700 V _{RMS}
2) Characteristic Impedance	75 +/- 3
3) Ground Capacitance	21.5 pf/ft @1 kHz, Nominal
4) Velocity of Propagation	66 %
5) Conductor DCR	41 /1000ft @20°C, Nominal
6) OA Shield DCR	5 /1000ft @20°C, Nominal
7) Voltage Withstanding	7 kV, Minimum
8) Corona Extinction	2.3 kV, Minimum
9) Attenuation, Max dB/100ft	2.4 @ 100 MHz
	4.9 @ 200 MHz
	7.1 @ 400 MHz

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:9830

9830 , RoHS-Compliant Commencing With8/1/2005Production

*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)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

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