Customer Specification
PART NO. 9830

Construction

		Diameters (In)			
1) Component 1	1 X 1 COAX				
a) Conductor	22 (SOLID) AWG BCW	0.025			
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) CE ROHS (SEQ FOOTAGE -2FT) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]				

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	
4) CE:	EU Low Voltage Directive 2006/95/EC	

Environmental

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. Consult Alpha Wire's web site for RoHS C of C.
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, please see Alpha's REACH SVHC Declaration.
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 Ω +/- 3
3) Ground Capacitance	21.5 pf/ft @1 kHz, Nominal
4) Velocity of Propagation	66 %
5) Conductor DCR	41 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	5 Ω/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

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 12 x 3.5 Continuous length
b) 500 FT	12 x 4.5 x 3.5 Continuous length
c) 100 FT	6.5 x 4 x 2.5 Continuous length
	[Spool dimensions may vary slightly]

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