

Customer Specification

PART NO. 9008

Construction

						Diameter ("in")	
1) Component 1						1 x 1 COAX	
a) Conductor						13 (7/21) AWG BC	0.086
b) Insulation						0.0995" Wall, Nom. Polyethylene (PE)	0.285
(1) Color(s)							
Cond	Color	Cond	Color	Cond	Color		
1	CLEAR						
2) Shield						BC BRAID Shield,94% Coverage (min.).	
3) Jacket						0.046" Wall, Nom. Type I PVC	0.405+/- 0.007
a) Color(s)						Black	
b) Print						ALPHA WIRE-* P/N 9008 RG 8/U ROHS * = Factory Code	

Applicable Specifications

1) Military	JAN-C-17A / RG-8/U	60°C / 3700 V _{RMS}

Environmental

1) EU Directive 2011/65/EU(RoHS2)	
	All materials used manufacturing this part are in compliance with European Directive 2011/65/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Refer to the RoHS Certificate of Compliance .
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, refer to the Alpha Wire REACH SVHC Declaration .
3) California Proposition 65	Outer surface materials used in manufacturing 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	59 lbs. (max.)
Electrical Properties	
	<i>For Engineering purposes only</i>
1) Voltage Rating	3700 V _{RMS}
2) Characteristic Impedance	52 ω +/- 2
3) Ground Capacitance	29.5 pf/ft @1 kHz, Nominal
4) Velocity of Propagation	66 %
5) Conductor DCR	1.9 ω/1000ft @20°C, Nominal
6) OA Shield DCR	1.29 ω/1000ft @20°C, Nominal
7) Voltage Withstanding	10 kV (min.)
8) Corona Extinction	5 kV (min.)
9) Attenuation (max. dB/100ft)	2.3 @ 100 MHz
	6 @ 400 MHz
	20 @ 3 GHz

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	20 x 11 x 8 Continuous Length
b) 500 FT	16 x 11 x 8 Continuous Length
c) 100 FT	12 x 10 x 5 Continuous Length
	<i>Spool dimensions may vary slightly</i>

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