

Customer Specification

PART NO. 9102

Construction

				Diameters (In)	
1) Component 1		1 X 1 COAX			
a) Conductor		20 (SOLID) AWG BCW			
b) Insulation		0.054" Wall, Nom. Foam FEP Teflon		0.140	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	NATURAL				
2) Shield:		A/P/A Tape, 25% Overlap, Min.			
a) Braid		TC,94% Coverage, Min.			
3) Jacket		0.020" Wall, Nom.,PVDF		0.212 (0.222 Max.)	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N 9102 RG 59 TYPE FOAM 20 AWG TYPE CL2P OR CMP 125C (UL) OR C(UL) CMP FT6 ROHS * = Factory Code			

Applicable Specifications

1) UL	CMP	125°C
	CL2P	
2) CSA International	C(UL) TYPE CMP	125°C
	FT6	

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	-10 to 125°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	15.4 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Characteristic Impedance	75
3) Inductance	0.09 μH/ft, Nominal
4) Ground Capacitance	16.5 pf/ft @1 kHz, Nominal
5) Velocity of Propagation	82 %
6) Conductor DCR	26 /1000ft @20°C, Nominal
7) OA Shield DCR	2.6 /1000ft @20°C, Nominal
8) SRL	22 db, Minimum 50 - 400 MHz
9) Attenuation, Max dB/100ft	2.5 @ 50 MHz
	9.2 @ 900 MHz

Other

1) Packaging	
a) 1000 FT	
b) 500 FT	

www.alphawire.com

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:9102

9102 , RoHS-Compliant Commencing With11/1/2004Production

*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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