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

Request a Sample

Customer Specification

PART NO. 9109

Construction

				Diameters (In)	
1) Component 1		1 X 1 COND			
a) Conductor		20 (7/28) AWG TC		0.038	
b) Insulation		0.017" Wall, Nom. FEP		0.072	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	CLEAR				
2) Component 2		1 X 1 COND			
a) Conductor		20 (7/28) AWG BC		0.038	
b) Insulation		0.017" Wall, Nom. FEP		0.072	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	CLEAR				
3) Pairing		2/Cond Cabled Together			
(1) Twists:		6.0 Twists/foot (min)			
4) Common Dielectric				a) Material	
FEP-Teflon		0.195		(1) Color(s)	
NATURAL				5) Shield	
TC BRAID Shield,95% Coverage, Min.				6) Jacket	
0.015" Wall, Nom.,PVDF		0.252 (0.266 Max.)		a) Color(s)	
SLATE				b) Print	

Applicable Specifications

1) UL	CL2P	125°C
	CMP	125°C
2) CSA International	CMP	125°C
3) 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	-55 to 125°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	24.8 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V_{RMS}
2) Max DCR Ω/1000ft @20°C	10.5 (Tinned copper)
	9.8 (Bare coppr)
3) Max Shield DCR	2.25 Ω/1000ft
4) Capacitance	13.3 pf/ft @1 kHz
5) Velocity of Propagation	69 %
6) Impedance	100 Ω +/- 5 @ 1 Mhz
7) Max Attenuation, dB/100ft	1.2 @ 10 MHz
	1.7 @ 20 MHz
	2.7 @ 50 MHz
8) Nom Attenuation, dB/100ft	0.4 @ 1 MHz
	1.2 @ 10 MHz
	1.7 @ 20 MHz
	2.7 @ 50 MHz
	4.2 @ 100 MHz
	10.5 @ 400 MHz

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 12 x 3.5 Continuous length
	[Spool dimensions may vary slightly]

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Although Alpha Wire (“Alpha”) makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 9109

9109 , RoHS-Compliant Commencing With 11/1/2004 Production

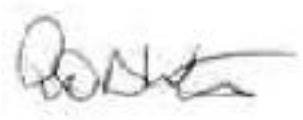
Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS “Marking for Control of Pollution by Electronic Information Products” standard SJ/T 11364-2014.

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)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE) ,	
Including Deca-BDE	0.1% by weight (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% by weight (1000 ppm)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire:



Dave Watson, Director of Engineering & QA 2/9/2017

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