

Customer Specification

PART NO. 58909

Construction

						Diameters (In)	
1) Component 1						9 X 1 PAIR	
a) Conductor						24 (7/32) AWG TC	0.024
b) Insulation						0.012" Wall, Nom. FEP	0.048
(1) Color Code					Alpha Wire Color Code N		
Pair	Color	Pair	Color	Pair	Color		
1	BLACK- YELLOW	4	ORANGE- GREEN	7	RED/WHITE WHITE/RED		
2	RED-VIOLET	5	BLACK/WHI WHITE/BLAC	8	ORANGE/W WHITE/ORAI		
3	BLUE- BROWN	6	BROWN/WF WHITE/BRO\	9	YELLOW/WI WHITE/YELL(
c) Pair						2/Cond Cabled Together	
(1) Twists:						9.6 Twists/foot (min)	
2) Cable Assembly						9 Components Cabled	
a) Twists:						2.8 Twists/foot (min)	
b) Core Wrap						Clear Mylar Tape, 25% Overlap, Min.	
3) Shield:						Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction						Foil Facing In	
b) Drain Wire						24 (7/32) AWG TC	
4) Jacket						0.011" Wall, Nom.,PVDF	0.315 (0.332 Max.)
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N 58909 9PR 24 AWG SHIELDED 125C (UL) TYPE CMP OR C(UL) TYPE CMP FT6 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]	

Applicable Specifications

CMP	125°C
FT6	
C(UL) TYPE CMP	125°C
EU Low Voltage Directive 2006/95/EC	
	FT6 C(UL) TYPE CMP

Environmental

	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 <u>Alpha's REACH SVHC Declaration</u> .
	European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date
	European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date
2) REACH Regulation (EC 1907/2006):	
	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.
1) CE: EU Directive 2011/65/EU(RoHS2)	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European

Properties

Physical & Mechanical Properties		
1) Temperature Range	-25 to 125°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	67 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	150 V _{RMS}	
2) Characteristic Impedance	104 ω +/- 10	
3) Inductance	0.2 μH/ft, Nominal	
4) Mutual Capacitance	15 pF/ft @1 kHz, Nominal	
5) Ground Capacitance	27 pF/ft @1 kHz, Nominal	
6) Conductor DCR	26 ω/1000ft @20°C, Nominal	
7) OA Shield DCR	13.4 ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	18 x 12 x 8 Max. 3 separate pieces; Min length/piece 250 FT.	
b) 500 FT	12 x 10 x 5 Continuous length	
[Spool dimensions may vary slightly]		

www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 58909

58909, RoHS-Compliant Commencing With 01/05/2005 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 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. T the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitio **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control c

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 diguide 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 content information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA 31/03/2025

Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000