

Customer Specification

PART NO. 58912

Construction

						Diameters (In)	
1) Component 1						12 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	5	BLACK/WHITE/WHITE/BLACK	9	YELLOW/WHITE/WHITE/YELLOW		
2	RED-VIOLET	6	BROWN/WHITE/WHITE/BROWN	10	GREEN/WHITE/WHITE/GREEN		
3	BLUE-BROWN	7	RED/WHITE/WHITE/RED	11	BLUE/WHITE/WHITE/BLUE		
4	ORANGE-GREEN	8	ORANGE/WHITE/WHITE/ORANGE	12	VIOLET/WHITE/WHITE/VIOLET		
c) Pair						2/Cond Cabled Together	
(1) Twists:						9.6 Twists/foot (min)	
2) Component 2						1 X 1 COND	
a) Conductor						24 (7/32) AWG TC	0.024
b) Insulation						0.012" Wall, Nom. FEP	0.048
(1) Color(s)							
Cond	Color	Cond	Color	Cond	Color		
1	GREEN/YELLOW						
3) Cable Assembly						13 Components Cabled	
a) Twists:						2.4 Twists/foot (min)	
b) Core Wrap						Clear Mylar Tape, 25% Overlap, Min.	
4) Shield:						Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction						Foil Facing In	
b) Drain Wire						24 (7/32) AWG TC	
5) Jacket						0.011" Wall, Nom., PVDF	0.367 (0.391 Max.)
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N 58912 12PR / 1C 24 AWG SHIELDED 125C (UL) TYPE CMP OR C(UL) TYPE CMP FT6 CE ROHS * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>	

Applicable Specifications

1) UL	CMP	125°C
2) CSA International	FT6	
	C(UL) TYPE 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	-25 to 125°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	91 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	150 V _{RMS}
2) Component 1	
a) Characteristic Impedance	104 ω +/- 10
b) Inductance	0.2 μ H/ft, Nominal
c) Mutual Capacitance	16 pF/ft @1 kHz, Nominal
d) Ground Capacitance	27 pF/ft @1 kHz, Nominal
e) Conductor DCR	26 ω /1000ft @20°C, Nominal
3) Component 2	
a) Conductor DCR	26 ω /1000ft @20°C, Nominal
b) OA Shield DCR	13.4 ω /1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	20 x 11 x 8 Max. 3 separate pieces; Min length/piece 250 FT.
b) 500 FT	16 x 11 x 8 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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Although Alpha Wire ("Alpha") makes every reasonable effort to ensure there 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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SpecPDFFooterConfidential



EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 58912

58912, 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 Union (2011/65/EU), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. 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 **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control"

Substance

Lead
Mercury
Cadmium
Hexavalent Chromium
Polybrominated Biphenyls (PBB)
Polybrominated Diphenyl Ethers (PBDE) ,
Including Deca-BDE
Bis(2-ethylhexyl) phthalate (DEHP)
Butyl benzyl phthalate (BBP)
Dibutyl phthalate (DBP)
Diisobutyl phthalate (DIBP)

Maximum Control Value

0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)

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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 issuance. This document is intended to provide guidance 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 provide a warranty or guarantee of any kind. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulatory requirements. Authorized Signatory for the Alpha Wire:

A handwritten signature in blue ink, appearing to read 'QBW', with a long horizontal line extending to the right.

Dave Watson, Director of Engineering & QA 13/08/2025

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