

Customer Specification

PART NO. 58643

Construction

						Diameters (In)	
1) Component 1						3 X 1 PAIR	
a) Conductor						16 (7/.0192) AWG TC	0.058
b) Insulation						0.007" Wall, Nom. FEP	0.072
(1) Color Code					Alpha Wire Color Code A1		
Pair	Color	Pair	Color	Pair	Color		
1	BLACK-RED	2	BLACK- WHITE	3	BLACK- GREEN		
c) Pa	ir					2/Cond Cabled Together	
(1) Tv	wists:					4.8 Twists/foot (min)	
Indiv	idually Applie	d:					
d) Sh	ield:					Foil Free Alum/Mylar Tape, 25% Overlap, Min.	
(1) Foil Direction						Foil Facing In	
(2) Drain Wire						18 (7/.0152) AWG TC	
2) Cable Assembly						3 Components Cabled	
a) Twists:						2.4 Twists/foot (min)	
b) Core Wrap						Clear Mylar Tape, 25% Overlap, Min.	
3) Jacket						0.012" Wall, Nom.,PVDF	0.309 (0.321 Max.)
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N 58643 3PR 16 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

1) UL	СМР	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 <u>RoHS C of C</u> .	
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 <u>Alpha's REACH SVHC Declaration</u> .	
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements o California Proposition 65.	

Properties

Physical & Mechanical Properties		
1) Temperature Range	-25 to 125°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	160 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	150 V _{RMS}	
2) Characteristic Impedance	33 ω +/- 10	
3) Inductance	0.14 µH/ft, Nominal	
4) Mutual Capacitance	53 pF/ft @1 kHz, Nominal	
5) Ground Capacitance	95 pF/ft @1 kHz, Nominal	
6) Conductor DCR	4.4 ω/1000ft @20°C, Nominal	
7) Ind. Shield DC Resistance	6 ω/1000ft @20°C, Nominal	

Other

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

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 58643

58643, 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 d 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 c Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and reg Authorized Signatory for the Alpha Wire:

Q AI to

Dave Watson, Director of Engineering & QA 16/08/2025

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