

Customer Specification

PART NO. M8744500

Construction

	Diameters (In)	
1) Component 1	50 X 1 PAIR	
a) Conductor	14 (7/.0242) AWG Bare Copper	0.073
b) Insulation	0.016" Wall, Nom. PVC/ 0.005" Wall NYLON	0.115
(1) Print ALPHA NUMERIC NUMBERS - WHITE C (ONE-1) ALTERNATE INVERTED 2"SPAC		
(2) Color Code	Alpha Wire Color Code BW	

Pair	Color	Pair	Color	Pair	Color]	
1	BLACK- WHITE#1	18	BLACK- WHITE#18	35	BLACK- WHITE#35		
2	BLACK- WHITE#2	19	BLACK- WHITE#19	36	BLACK- WHITE#36		
3	BLACK- WHITE#3	20	BLACK- WHITE#20	37	BLACK- WHITE#37		
4	BLACK- WHITE#4	21	BLACK- WHITE#21	38	BLACK- WHITE#38		
5	BLACK- WHITE#5	22	BLACK- WHITE#22	39	BLACK- WHITE#39		
6	BLACK- WHITE#6	23	BLACK- WHITE#23	40	BLACK- WHITE#40		
7	BLACK- WHITE#7	24	BLACK- WHITE#24	41	BLACK- WHITE#41		
8	BLACK- WHITE#8	25	BLACK- WHITE#25	42	BLACK- WHITE#42		
9	BLACK- WHITE#9	26	BLACK- WHITE#26	43	BLACK- WHITE#43		
10	BLACK- WHITE#10	27	BLACK- WHITE#27	44	BLACK- WHITE#44		
11	BLACK- WHITE#11	28	BLACK- WHITE#28	45	BLACK- WHITE#45		
12	BLACK- WHITE#12	29	BLACK- WHITE#29	46	BLACK- WHITE#46		
13	BLACK- WHITE#13	30	BLACK- WHITE#30	47	BLACK- WHITE#47		
14	BLACK- WHITE#14	31	BLACK- WHITE#31	48	BLACK- WHITE#48		
15	BLACK- WHITE#15	32	BLACK- WHITE#32	49	BLACK- WHITE#49		
16	BLACK- WHITE#16	33	BLACK- WHITE#33	50	BLACK- WHITE#50		
17	BLACK- WHITE#17	34	BLACK- WHITE#34				
c) Pai	ir					2/Cond Cabled Together	
1) Tv	wists:					3.7 Twists/foot (min)	
	idually Applie	ed:					
	ield:					Foil Free Alum/Mylar Tape, 25% Overlap, Min.	
	oil Direction					Foil Facing In	
	rain Wire					16 (7/.0192) AWG Tinned Copper	
	ble Assembly					50 Components Cabled	
	a) Twists: o) Orientation:					0.5 Twists/foot (min) Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
	c) 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					16 (7/.0192) AWG Tinned Copper		
4) Jacket					0.115" Wall, Nom.,PVC	1.929 (2.008 N	
a) Color(s)					BLACK		
b) Ripcord					1 End 810 Denier Nylon		
c) Pri						ALPHA WIRE-* P/N M8744500 50PR 14 AWG EXXXXXX (UL) TYPE TC-ER 600V 90C DRY 75C WET SUN. RES. DIR. BUR. CE ROHS * = Factory Code	

Applicable Specifications

1) UL	TC	90°C / 600 V _{RMS}
	SUN RES	
	DIRECT BURIAL	
	EXPOSED RUN	
2) CE:	EU Low Voltage Directive 2014/35/EU	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):		
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item.	
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.	
3) California Proposition 65:	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.	

Properties

Physical & Mechanical Properties		
1) Temperature Range	-25 to 90°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	4256 Lbs, Maximum	
4) Sunlight Resistance	Yes	
5) Direct Burial	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}	
2) Mutual Capacitance	57 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	103 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	39 Ω	
5) Inductance	0.17 μH/ft, Nominal	
6) Conductor DCR	2.6 Ω/1000ft @20°C, Nominal	
7) Component Shield DCR	4 Ω/1000ft @20°C, Nominal	
8) OA Shield DCR	2.5 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	Continuous length	
b) 500 FT	60 x 32 x 32 Continuous length	
c) 100 FT	60 x 32 x 32 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	

www.alphawire.com

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M8744500

M8744500, RoHS-Compliant Commencing With 01/01/2006 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 16/09/2025

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