



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

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Customer Specification

PART NO. M8704500

Construction

		Diameters (In)			
1) Component 1		50 X 1 PAIR			
a) Conductor		14 (7.0242) AWG BC		0.073	
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.115	
(1) Print		ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)			
(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) Pair		2/Cond Cabled Together			
(1) Twists:		3.7 Twists/foot (min)			
2) Cable Assembly		50 Components Cabled			
a) Twists:		0.5 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		16 (7.0192) AWG TC			
4) Jacket		0.115" Wall, Nom.,PVC		1.778 (1.855 Max.)	
a) Color(s)		BLACK			
b) Ripcord		1 End 810 Denier Nylon			
c) Print		ALPHA WIRE-* P/N M8704500 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 2006/95/EC	

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. 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:	
	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-25 to 90°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	3242 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	34 pf/ft @1 kHz, Nominal
3) Ground Capacitance	61 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	64 Ω
5) Inductance	0.17 μH/ft, Nominal
6) Conductor DCR	2.6 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	2.6 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	60 x 32 x 32 Continuous length
b) 500 FT	48 x 26 x 18 Continuous length
c) 100 FT	48 x 26 x 18 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M8704500

M8704500 , RoHS-Compliant Commencing With 1/1/2006 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 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)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA

9/11/2019

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