



Customer Specification

PART NO. M9700500

Construction				

K-WHITE#1 K-WHITE#2 K-WHITE#3 K-WHITE#4 K-WHITE#5 K-WHITE#6 K-WHITE#7	0.016" Wa ALPHA NI (ONE-1) A	IR 21) AWG Bare Copper all, Nom. PVC UMERIC NUMBERS - WHITE CONTENATE INVERTED 2"SPACE TO COLOR BLACK-WHITE#18 BLACK-WHITE#19 BLACK-WHITE#20 BLACK-WHITE#21			
K-WHITE#1 K-WHITE#2 K-WHITE#3 K-WHITE#4 K-WHITE#5 K-WHITE#6 K-WHITE#7 K-WHITE#8	0.016" Wa ALPHA NI (ONE-1) A Alpha Wii Pair 18 19 20 21	Color BLACK-WHITE#19 BLACK-WHITE#20	0.068 ONDUCTOR ONLY ING(CTR. TO CTR. Pair 35 36	Color BLACK-WHITE#35	
K-WHITE#1 K-WHITE#2 K-WHITE#3 K-WHITE#4 K-WHITE#5 K-WHITE#6 K-WHITE#7 K-WHITE#8	ALPHA NI (ONE-1) A Alpha Wii Pair 18 19 20 21	Color BLACK-WHITE#19 BLACK-WHITE#20	ONDUCTOR ONLY ING(CTR. TO CTR. Pair 35 36	Color BLACK-WHITE#35	
K-WHITE#1 K-WHITE#2 K-WHITE#3 K-WHITE#4 K-WHITE#5 K-WHITE#6 K-WHITE#7 K-WHITE#8	(ONE-1) A Alpha Wii Pair 18 19 20 21	Color BLACK-WHITE#19 BLACK-WHITE#20	Pair 35 36	Color BLACK-WHITE#35	
K-WHITE#1 K-WHITE#2 K-WHITE#3 K-WHITE#4 K-WHITE#5 K-WHITE#6 K-WHITE#7 K-WHITE#8	Pair 18 19 20 21	Color BLACK-WHITE#18 BLACK-WHITE#19 BLACK-WHITE#20	35 36	BLACK-WHITE#35	
K-WHITE#1 K-WHITE#2 K-WHITE#3 K-WHITE#4 K-WHITE#5 K-WHITE#6 K-WHITE#7 K-WHITE#8	18 19 20 21	BLACK-WHITE#18 BLACK-WHITE#19 BLACK-WHITE#20	35 36	BLACK-WHITE#35	
K-WHITE#2 K-WHITE#3 K-WHITE#4 K-WHITE#5 K-WHITE#6 K-WHITE#7 K-WHITE#8	19 20 21	BLACK-WHITE#19 BLACK-WHITE#20	36		
K-WHITE#3 K-WHITE#4 K-WHITE#5 K-WHITE#6 K-WHITE#7 K-WHITE#8	20 21	BLACK-WHITE#20		BLACK-WHITE#36	
K-WHITE#4 K-WHITE#5 K-WHITE#6 K-WHITE#7 K-WHITE#8	21		27	BLACK-WHITE#36	
K-WHITE#5 K-WHITE#6 K-WHITE#7 K-WHITE#8		RI ACV WUITE#21	5/	BLACK-WHITE#37	
K-WHITE#6 K-WHITE#7 K-WHITE#8	22	DLACK-WHITE#ZI	38	BLACK-WHITE#38	
K-WHITE#7 K-WHITE#8		BLACK-WHITE#22	39	BLACK-WHITE#39	
K-WHITE#8	23	BLACK-WHITE#23	40	BLACK-WHITE#40	
	24	BLACK-WHITE#24	41	BLACK-WHITE#41	
	25	BLACK-WHITE#25	42	BLACK-WHITE#42	
K-WHITE#9	26	BLACK-WHITE#26	43	BLACK-WHITE#43	
K-WHITE#10	27	BLACK-WHITE#27	44	BLACK-WHITE#44	
K-WHITE#11	28	BLACK-WHITE#28	45	BLACK-WHITE#45	
K-WHITE#12	29	BLACK-WHITE#29	46	BLACK-WHITE#46	
K-WHITE#13	30	BLACK-WHITE#30	47	BLACK-WHITE#47	
K-WHITE#14	31	BLACK-WHITE#31	48	BLACK-WHITE#48	
K-WHITE#15	32	BLACK-WHITE#32	49	BLACK-WHITE#49	
K-WHITE#16	33	BLACK-WHITE#33	50	BLACK-WHITE#50	
16 BLACK-WHITE#16 17 BLACK-WHITE#17		34 BLACK-WHITE#34		DEACK WITHEITS	
	2/Cond C	abled Together	İ		
		6.0 Twists/foot (min)			
		1 X 1 COND			
	22 (7/30)	22 (7/30) AWG Bare Copper			
	0.016" Wa	0.016" Wall, Nom. PVC		0.062	
b) Insulation (1) Color(s)					
Cond Color		Color	Cond	Color	
ORANGE					
•	51 Compo	51 Components Cabled			
	0.9 Twists	0.9 Twists/foot (min)			
		Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
	Clear Myl	Clear Mylar Tape, 25% Overlap, Min.			
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		· · · · · · · · · · · · · · · · · · ·			
		22 (7/30) AWG Tinned Copper			
			1.069 (1.11	3 Max.)	
	BLACK				
	1 End 810	Denier Nylon			
	ALPHA W SHIELDED OR CL3 10 * = Factor	ALPHA WIRE-* P/N M9700500 50PR 20 AWG 1C 22 AWG SHIELDED EXXXXX (UL) TYPE PLTC/ITC 105C SUN RES OR CL3 105C OR C(UL) CMG 105C FT4 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			
		Alum/Myl Foil Facing 22 (7/30) 0.073" Wa BLACK 1 End 810 ALPHA W SHIELDED OR CL3 10 * = Factor	Alum/Mylar Tape, 25% Overlap, Min. Foil Facing In 22 (7/30) AWG Tinned Copper 0.073" Wall, Nom.,PVC BLACK 1 End 810 Denier Nylon ALPHA WIRE-* P/N M9700500 50PR 20 SHIELDED EXXXXX (UL) TYPE PLTC/ITC OR CL3 105C OR C(UL) CMG 105C FT4 (* = Factory Code	Alum/Mylar Tape, 25% Overlap, Min. Foil Facing In 22 (7/30) AWG Tinned Copper 0.073" Wall, Nom.,PVC 1.069 (1.11 BLACK 1 End 810 Denier Nylon ALPHA WIRE-* P/N M9700500 50PR 20 AWG 1C 22 AWG SHIELDED EXXXXXX (UL) TYPE PLTC/ITC 105C SUN RES OR CL3 105C OR C(UL) CMG 105C FT4 CE ROHS * = Factory Code	

Applicable Specifications

1) UL	CL3	105°C
	PLTC	105°C
	ITC	105°C
	SUN RES	
2) CSA International	C(UL) TYPE CMG	105°C
	FT4	
3) 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 mo information.			

Properties					
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Physical & Mechanical Properties				
1) Temperature Range	-20 to 105°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	814 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V _{RMS}			
2) Component 1				
a) Mutual Capacitance	32 pF/ft @1 kHz, Nominal			
b) Ground Capacitance	58 pF/ft @1 kHz, Nominal			
c) Characteristic Impedance	70 Ω			
d) Inductance	0.19 μH/ft, Nominal			
e) Conductor DCR	10.7 Ω/1000ft @20°C, Nominal			
f) OA Shield DCR	6.4 Ω/1000ft @20°C, Nominal			
3) Component 2				
a) Ground Capacitance	107 pF/ft @1 kHz, Nominal			
b) Inductance	0.044 μH/ft, Nominal			
c) Conductor DCR	15.4 Ω/1000ft @20°C, Nominal			
d) OA Shield DCR	6.4 Ω/1000ft @20°C, Nominal			

Other

Packaging	Flange x Traverse x Barrel (inches)		
a) 1000 FT	48 x 26 x 18 Continuous length		
b) 500 FT	36 x 14 x 12 Continuous length		
c) 100 FT	24 x 14 x 12 Continuous length		
d) Bulk(Made-to-order)			
	[Spool dimensions may vary slightly]		
	[Spoot darierstons may vary stightly]		

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M9700500

M9700500, RoHS-Compliant Commencing With 1/1/2006 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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). This product also complies with UK - RoHS. 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. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

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 5/5/2024

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