

Customer Specification

PART NO. M9700060

Construction

							Diameters (In)		
1) Component 1		6 X 1 PAIR	6 X 1 PAIR						
a) Conductor		20 (7/.0121)	20 (7/.0121) AWG Bare Copper				0.036		
b) Insulation		0.016" Wall,	Nom. PVC				0.068		
(1) Print			ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)						
(2) Color Code		Alpha Wire	Alpha Wire Color Code BW						
Pair	Color		Pair Color			Pa	eir Color		
1	BLACK	-WHITE#1	3	BLACK-\	WHITE#3	5	5		C-WHITE#5
2	BLACK-WHITE#2		4	BLACK-\	WHITE#4	6		BLACK-WHITE#6	
c) Pair	•	2/Cond Cab	led Together	·		·		·	
(1) Twists:		6.0 Twists/fo	oot (min)						
2) Component	2	1 X 1 CONE)						
a) Conductor		22 (7/30) A\	22 (7/30) AWG Bare Copper				0.030		
b) Insulation		0.016" Wall,	0.016" Wall, Nom. PVC				0.062		
(1) Color(s)									
Cond	(Color	Cond		Color	С	ond		Color
1	(DRANGE							
3) Cable Assembly 7 Compone		ponents Cabled							
a) Twists:		2.4 Twists/fo	2.4 Twists/foot (min)						
b) Orientation:		Component LAYER	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER						
c) Core Wrap		Clear Mylar	Clear Mylar Tape, 25% Overlap, Min.						
		Alum/Mylar	Alum/Mylar Tape, 25% Overlap, Min.						
a) Foil Direction		Foil Facing I	Foil Facing In						
b) Drain Wire 2		22 (7/30) AV	22 (7/30) AWG Tinned Copper						
5) Jacket		0.053" Wall,	0.053" Wall, Nom.,PVC			0.451 (0.471 Max.)			
a) Color(s)		BLACK	BLACK						
b) Ripcord 1 End 810 Denie		enier Nylon	Nylon						
ALPHA WIRE-* P/N M SHIELDED EXXXXX (U c) Print OR CL3 105C OR C(UI * = Factory Code [Note: Product may he				PLTC/ITC 105 105C FT4 CE	SC SUN RES ROHS	g upon pl	ant of mai	nufacture.]	

Applicable Specifications

CL3	105°C	
PLTC	105°C	
ITC	105°C	
SUN RES		
C(UL) TYPE CMG	105°C	
FT4		
EU Low Voltage Directive 2014/35/EU		
	ITC SUN RES C(UL) TYPE CMG FT4	ITC 105°C SUN RES C(UL) TYPE CMG 105°C FT4

Environmental

	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 Exemption are required for RoHS Compliance on this item.
2) REACH Regulation (EC 190	
	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	-20 to 105°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	107 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V _{RMS}			
2) Component 1				
a) Mutual Capacitance	28 pF/ft @1 kHz, Nominal			
b) Ground Capacitance	50 pF/ft @1 kHz, Nominal			
c) Characteristic Impedance	75 Ω			
d) Inductance	0.19 μH/ft, Nominal			
e) Conductor DCR	10.6 Ω/1000ft @20°C, Nominal			
f) OA Shield DCR	10.3 Ω/1000ft @20°C, Nominal			
3) Component 2				
a) Ground Capacitance	94 pF/ft @1 kHz, Nominal			
b) Inductance	0.044 μH/ft, Nominal			
c) Conductor DCR	15.3 Ω/1000ft @20°C, Nominal			
d) OA Shield DCR	10.4 Ω/1000ft @20°C, Nominal			

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	24 x 14 x 12 Continuous length	
b) 500 FT	18 x 14.25 x 8 Continuous length	
c) 100 FT	12 x 5.94 x 5 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	
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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M9700060

M9700060, 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 5/3/2024

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