

## **Customer Specification**

#### **PART NO. M8706120**

#### **Construction**

						Diameters (In)	
1) Component 1						12 X 1 PAIR	
a) Conductor						16 (7/.0192) AWG Bare Copper	0.058
b) Insulation						0.016" Wall, Nom. PVC/ 0.005" Wall NYLON	0.100
(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	
1	BLACK- WHITE#1	5	BLACK- WHITE#5	9	BLACK- WHITE#9		
2	BLACK- WHITE#2	6	BLACK- WHITE#6	10	BLACK- WHITE#10		
3	BLACK- WHITE#3	7	BLACK- WHITE#7	11	BLACK- WHITE#11		
4	BLACK- WHITE#4	8	BLACK- WHITE#8	12	BLACK- WHITE#12		
c) Pair					2/Cond Cabled Together		
(1) T	wists:					4.0 Twists/foot (min)	
2) Cable Assembly						12 Components Cabled	
a) Tv	vists:					1.2 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap						Clear Mylar Tape, 25% Overlap, Min.	
3) Sh	nield:					Alum/Mylar Tape, 25% Overlap, Min.	
a) Fc	il Direction					Foil Facing In	
b) D	rain Wire					18 (7/.0152) AWG Tinned Copper	
4) Ja	cket					0.085" Wall, Nom.,PVC	0.858 (0.900 Max.
a) Color(s)						BLACK	
b) Ripcord						1 End 810 Denier Nylon	
c) Print						ALPHA WIRE-* P/N M8706120 12PR 16 AWG EXXXXXX (UL) TYPE TC-ER 600V 90C DRY 75C WET SUN. RES. DIR. BUR. CE ROHS * = Factory Code	

# **Applicable Specifications**

1) UL	тс	90°C / 600 V <sub>RMS</sub>
	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.

## **Properties**

Physical & Mechanical Properties			
-25 to 90°C			
10X Cable Diameter			
500 Lbs, Maximum			
Yes			
Yes			
(For Engineering purposes only)			
600 V <sub>RMS</sub>			
32 pF/ft @1 kHz, Nominal			
58 pF/ft @1 kHz, Nominal			
68 Ω			
0.18 μH/ft, Nominal			
4.2 Ω/1000ft @20°C, Nominal			
4.7 Ω/1000ft @20°C, Nominal			
	10X Cable Diameter 500 Lbs, Maximum Yes Yes (For Engineering purposes only) 600 V <sub>RMS</sub> 32 pF/ft @1 kHz, Nominal 58 pF/ft @1 kHz, Nominal 68 Ω 0.18 μH/ft, Nominal 4.2 Ω/1000ft @20°C, Nominal		

#### Other

Packaging	Flange x Traverse x Barrel (inches)
a) 2500 FT	48 x 26 x 18 Continuous length
b) 1000 FT	48 x 26 x 18 Continuous length
c) 500 FT	30 x 14 x 12 Continuous length
d) 100 FT	24 x 14 x 12 Continuous length
e) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]
Notes:	
a) 2500 ft. put-up available by special order.	

#### www.alphawire.com

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## **EU/UK/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: M8706120

M8706120, 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 3/30/2025

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