

## **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) Co	olor Code					Alpha Wire Color Code BW	
Pair	Color	Pair	Color	Pair	Color		
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) Pai	r					2/Cond Cabled Together	
(1) Tv	vists:					4.0 Twists/foot (min)	
2) Cable Assembly						12 Components Cabled	
a) Tw	ists:					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	ield:					Alum/Mylar Tape, 25% Overlap, Min.	
a) Fo	il Direction					Foil Facing In	
b) Drain Wire						18 (7/.0152) AWG Tinned Copper	
4) Jacket						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	
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# 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	5	
1) Temperature Range	-25 to 90°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	500 Lbs, Maximum	
4) Sunlight Resistance	Yes	
5) Direct Burial	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	600 V <sub>RMS</sub>	
2) Mutual Capacitance	32 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	58 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	68 Ω	
5) Inductance	0.18 μH/ft, Nominal	
6) Conductor DCR	4.2 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	4.7 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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Alpha Wire DDDDM8706120

M8706120000RoHS0000 2006/1/1 000000

DDDDLeadMercuryCadmiumHexavalent ChromiumPolybrominated Biphenyls (PBB)Polybrominated Diphenyl Ethers (PBDE),Including Deca-BDEBis(2-ethylhexyl) phthalate (DEHP)Butyl benzyl phthalate (BBP)Dibutyl phthalate (DBP)Diisobutyl phthalate (DIBP)

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2025/9/15