

Customer Specification PART NO. M9700120

Construction

	PVC NUMBERS - WH TE INVERTED 2" Code BW Color BLACK- WHITE#5 BLACK- WHITE#6 BLACK- WHITE#7 BLACK-	Diameters (In) 0.036 0.068 ITE CONDUCTOR (SPACING(CTR. TO) Pair 9 10 11	
20 (7/.0121) AWG 0.016" Wall, Nom. ALPHA NUMERIC ONE-1) ALTERNA Alpha Wire Color (Pair 6	PVC NUMBERS - WH TE INVERTED 2" Code BW Color BLACK- WHITE#5 BLACK- WHITE#6 BLACK- WHITE#7 BLACK-	0.068 ITE CONDUCTOR (SPACING(CTR. TO	Color BLACK- WHITE#9 BLACK- WHITE#10 BLACK-
O.016" Wall, Nom. ALPHA NUMERIC ONE-1) ALTERNA Alpha Wire Color C Pair 6	PVC NUMBERS - WH TE INVERTED 2" Code BW Color BLACK- WHITE#5 BLACK- WHITE#6 BLACK- WHITE#7 BLACK-	0.068 ITE CONDUCTOR (SPACING(CTR. TO	Color BLACK- WHITE#9 BLACK- WHITE#10 BLACK-
ALPHA NUMERIC ONE-1) ALTERNA Alpha Wire Color C Pair 5	NUMBERS - WHATE INVERTED 2" Code BW Color BLACK-WHITE#5 BLACK-WHITE#6 BLACK-WHITE#7 BLACK-WHITE#7	Pair 9	Color BLACK- WHITE#9 BLACK- WHITE#10 BLACK-
ONE-1) ALTERNA Alpha Wire Color (Pair 5	Code BW Color BLACK- WHITE#5 BLACK- WHITE#6 BLACK- WHITE#7 BLACK-	Pair 9	Color BLACK- WHITE#9 BLACK- WHITE#10 BLACK-
Pair 5	Color BLACK- WHITE#5 BLACK- WHITE#6 BLACK- WHITE#7 BLACK-	9	BLACK- WHITE#9 BLACK- WHITE#10 BLACK-
5 6 7	BLACK-WHITE#5 BLACK-WHITE#6 BLACK-WHITE#7 BLACK-	9	BLACK- WHITE#9 BLACK- WHITE#10 BLACK-
7	WHITE#5 BLACK- WHITE#6 BLACK- WHITE#7 BLACK-	10	WHITE#9 BLACK- WHITE#10 BLACK-
7	WHITE#6 BLACK- WHITE#7 BLACK-		WHITE#10 BLACK-
	WHITE#7 BLACK-	11	
3			
	WHITE#8	12	BLACK- WHITE#12
2/Cond Cabled To	gether		
6.0 Twists/foot (mi	n)		
1 X 1 COND			
22 (7/30) AWG BC		0.030	
0.016" Wall, Nom. PVC		0.062	
Cond	Color	Cond	Color
13 Components Cabled			
1.7 Twists/foot (min)			
Clear Mylar Tape, 25% Overlap, Min.			
1	Cond 13 Components Co	Cond Color 13 Components Cabled 1.7 Twists/foot (min)	Cond Color Cond 13 Components Cabled 1.7 Twists/foot (min)

4) Shield:	Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction	Foil Facing In	
b) Drain Wire	22 (7/30) AWG TC	
5) Jacket	0.053" Wall, Nom.,PVC	0.581 (0.606 Max.)
a) Color(s)	BLACK	
b) Ripcord	1 End 810 Denier Nylon	
c) Print	ALPHA WIRE-* P/N M9700120 12PR SHIELDED EXXXXX (UL) TYPE PLTC OR CL3 105C OR C(UL) CMG 105C F * = Factory Code [Note: Product may have c(UL) or CSA manufacture.]	C/ITC 105C SUN RES T4 CE ROHS

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 2006/95/EC	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS	52):
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. 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:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

Properties

Physical & Mechanical Properties		
1) Temperature Range	-20 to 105°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	204 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	71 Ω	
d) Inductance	0.19 μH/ft, Nominal	
e) Conductor DCR	10.6 Ω/1000ft @20°C, Nominal	
f) OA Shield DCR	9.2 Ω/1000ft @20°C, Nominal	
3) Component 2		
a) Ground Capacitance	105 pf/ft @1 kHz, Nominal	
b) Inductance	0.06 μH/ft, Nominal	
c) Conductor DCR	15.3 Ω/1000ft @20°C, Nominal	
d) OA Shield DCR	9.2 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1500 FT	36 x 14 x 12 Continuous length
b) 1000 FT	30 x 14 x 12 Continuous length
c) 500 FT	24 x 14 x 12 Continuous length
d) 100 FT	16 x 11 x 8 Continuous length
e) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]
Notes:	
a) 1500 ft. put-up available by special order.	

www.alphawire.com

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M9700120

M9700120, 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

9/24/2020

Alpha Wire

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Mouser Electronics

Authorized Distributor

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Alpha Wire:
M9700120 BK002