

Customer Specification PART NO. M9746120

Construction

				Diameters (ln)	
1) Component 1		12 X 1 PAIR	12 X 1 PAIR			
a) Conductor		16 (7/.0192)	16 (7/.0192) AWG BC		0.058	
b) Insulation		0.016" Wall, I	Nom. PVC	0.090		
(1) Print			ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)			
(2) Color Cod	е	Alpha Wire C	olor 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) Pair		2/Cond Cable	ed Together			
(1) Twists:		4.8 Twists/foo	ot (min)			
Individually A	applied:	•		•		
d) Shield:		Foil Free Alur Overlap, Min.	m/Mylar Tape, 25%			
(1) Foil Direction		Foil Facing In	Foil Facing In			
(2) Drain Wire		18 (7/.0152)	18 (7/.0152) AWG TC			
2) Component 2		1 X 1 COND	1 X 1 COND			
a) Conductor		22 (7/30) AW	22 (7/30) AWG BC			
b) Insulation		0.016" Wall, I	0.016" Wall, Nom. PVC			
(1) Color(s)						

Cond	Color	Cond	Color	Cond	Color	
1	ORANGE					
3) Cable Assembly	3) Cable Assembly		13 Components Cabled			
a) Twists:	a) Twists:		1.2 Twists/foot (min)			
b) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.				
4) Shield:		Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction		Foil Facing In				
b) Drain Wire		18 (7/.0152) AWG TC				
5) Jacket		0.063" Wall, Nom.,PVC		0.810 (0.838 Max.)		
a) Color(s)		BLACK				
b) Ripcord		1 End 810 Denier	Nylon			
c) Print		ALPHA WIRE-* P/N M9746120 12PR 16 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 p manufacture.]			ES	

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(RoHS2):				
	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	657 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V _{RMS}			
2) Component 1				
a) Mutual Capacitance	61 pf/ft @1 kHz, Nominal			
b) Ground Capacitance	110 pf/ft @1 kHz, Nominal			
c) Characteristic Impedance	37 Ω			
d) Inductance	0.17 μH/ft, Nominal			
e) Conductor DCR	4.2 Ω/1000ft @20°C, Nominal			
f) Component Shield DCR	6.1 Ω/1000ft @20°C, Nominal			
g) OA Shield DCR	4.7 Ω/1000ft @20°C, Nominal			
3) Component 2	<u></u>			
a) Ground Capacitance	105 pf/ft @1 kHz, Nominal			
b) Inductance	0.06 μH/ft, Nominal			
c) Conductor DCR	15.4 Ω/1000ft @20°C, Nominal			
d) OA Shield DCR	4.7 Ω/1000ft @20°C, Nominal			

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	36 x 14 x 12 Continuous length
b) 500 FT	30 x 14 x 12 Continuous length
c) 100 FT	24 x 14 x 12 Continuous length
d) Bulk(Made-to-order)	

[Sr	ool	dimensions	may	varv	slightly]
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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M9746120

M9746120, 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

9/28/2021

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