

Customer Specification

PART NO. M9748500

Construction

					rs (In)	
1) Component 1		50 X 1 PA	50 X 1 PAIR			
a) Conductor		18 (7/.015	18 (7/.0152) AWG Bare Copper		0.046	
b) Insulation		0.016" Wall, Nom. PVC		0.078	0.078	
(1) Print			ALPHA NUMERIC NUMBERS - WHITE CONE (ONE-1) ALTERNATE INVERTED 2"SPACING			
(2) Color C	Code	Alpha Wir	Alpha Wire Color Code BW			
Pair	Color	Pair	Color	Pair	Color	
1	BLACK-WHITE#1	18	BLACK-WHITE#18	35	BLACK-WHITE#35	
2	BLACK-WHITE#2	19	BLACK-WHITE#19	36	BLACK-WHITE#36	
3	BLACK-WHITE#3	20	BLACK-WHITE#20	37	BLACK-WHITE#37	
4	BLACK-WHITE#4	21	BLACK-WHITE#21	38	BLACK-WHITE#38	
5	BLACK-WHITE#5	22	BLACK-WHITE#22	39	BLACK-WHITE#39	
6	BLACK-WHITE#6	23	BLACK-WHITE#23	40	BLACK-WHITE#40	
7	BLACK-WHITE#7	24	BLACK-WHITE#24	41	BLACK-WHITE#41	
8	BLACK-WHITE#8	25	BLACK-WHITE#25	42	BLACK-WHITE#42	
9	BLACK-WHITE#9	26	BLACK-WHITE#26	43	BLACK-WHITE#43	
10	BLACK-WHITE#10	27	BLACK-WHITE#27	44	BLACK-WHITE#44	
11	BLACK-WHITE#11	28	BLACK-WHITE#28	45	BLACK-WHITE#45	
12	BLACK-WHITE#12	29	BLACK-WHITE#29	46	BLACK-WHITE#46	
13	BLACK-WHITE#13	30	BLACK-WHITE#30	47	BLACK-WHITE#47	
14	BLACK-WHITE#14	31	BLACK-WHITE#31	48	BLACK-WHITE#48	
15	BLACK-WHITE#15	32	BLACK-WHITE#32	49	BLACK-WHITE#49	
16	BLACK-WHITE#16	33	BLACK-WHITE#33	50	BLACK-WHITE#50	
17	BLACK-WHITE#17	34	BLACK-WHITE#34			
c) Pair		2/Cond Ca	2/Cond Cabled Together			
(1) Twists:		5.3 Twists/foot (min)				
Individuall	y Applied:					
d) Shield:		Foil Free Alum/Mylar Tape, 25% Overlap, Min.				
(1) Foil Direction		Foil Facing In				
(2) Drain Wire		20 (7/28) AWG Tinned Copper				
2) Component 2		1 X 1 COND				
a) Conductor		22 (7/30)	22 (7/30) AWG Bare Copper			
b) Insulation		0.016" Wall, Nom. PVC		0.062		

(1) Color(s)						
Cond	Color	Cond	Color	Cond	Color	
1	ORANGE					
3) Cable Assembly		51 Components	51 Components Cabled			
a) Twists:		0.7 Twists/foot	0.7 Twists/foot (min)			
b) Orientation:			Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap		Clear Mylar Tap	Clear Mylar Tape, 25% Overlap, Min.			
4) Shield:		Alum/Mylar Tap	Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In	Foil Facing In			
b) Drain Wire		20 (7/28) AWG	20 (7/28) AWG Tinned Copper			
5) Jacket		0.083" Wall, No	0.083" Wall, Nom.,PVC		1.329 (1.375 Max.)	
a) Color(s)		BLACK				
b) Ripcord		1 End 810 Denie	1 End 810 Denier Nylon			
c) Print	* = Factory Code		XX (UL) TYPE PLTC/ITC 1 R C(UL) CMG 105C FT4 C le	PE PLTC/ITC 105C SUN RES		

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 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.			
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			
-20 to 105°C			
10X Cable Diameter			
1721 Lbs, Maximum			
Yes			
(For Engineering purposes only)			
300 V _{RMS}			
55 pF/ft @1 kHz, Nominal			
99 pF/ft @1 kHz, Nominal			
41 Ω			
0.18 μH/ft, Nominal			
6.7 Ω/1000ft @20°C, Nominal			
8.3 Ω/1000ft @20°C, Nominal			
4.6 Ω/1000ft @20°C, Nominal			
3) Component 2			
107 pF/ft @1 kHz, Nominal			
0.044 μH/ft, Nominal			
15.4 Ω/1000ft @20°C, Nominal			
4.6 Ω/1000ft @20°C, Nominal			
	-20 to 105°C 10X Cable Diameter 1721 Lbs, Maximum Yes (For Engineering purposes only) 300 V _{RMS} 55 pF/ft @1 kHz, Nominal 99 pF/ft @1 kHz, Nominal 41 Ω 0.18 µH/ft, Nominal 6.7 Ω/1000ft @20°C, Nominal 8.3 Ω/1000ft @20°C, Nominal 107 pF/ft @1 kHz, Nominal 0.044 µH/ft, Nominal 15.4 Ω/1000ft @20°C, Nominal		

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	48 x 26 x 18 Continuous length	
b) 500 FT	48 x 26 x 18 Continuous length	
c) 100 FT	48 x 26 x 18 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: M9748500

M9748500, 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 Dire RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). Th these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item** compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product

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)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the d general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legisl product.

Authorized Signatory for the Alpha Wire:

the

Dave Watson, Director of Engineering 4/9/2024

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