



PART NO. M9740500

	Diameters (In)	
1) Component 1	50 X 1 PAIR	
a) Conductor	20 (7/.0121) AWG Bare Copper	0.036
b) Insulation	0.016" Wall, Nom. PVC	0.068
(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	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 Cabled Together	
(1) Twists:				6.0 Twists/foot (min)	
Individually Applied:					
d) Shield:				Foil Free Alum/Mylar Tape, 25% Overlap, Min.	
(1) Foil Direction				Foil Facing In	
(2) Drain Wire				22 (7/30) AWG Tinned Copper	
2) Component 2				1 X 1 COND	
a) Conductor				22 (7/30) AWG Bare Copper	0.030
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 Cabled	
a) Twists:				0.8 Twists/foot (min)	
b) Orientation:				Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) 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				22 (7/30) AWG Tinned Copper	

Physical & Mechanical Properties	
1) Temperature Range	-20 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	1089 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Component 1	
a) Mutual Capacitance	42 pF/ft @1 kHz, Nominal
b) Ground Capacitance	76 pF/ft @1 kHz, Nominal
c) Characteristic Impedance	51 Ω
d) Inductance	0.19 μH/ft, Nominal
e) Conductor DCR	10.7 Ω/1000ft @20°C, Nominal
f) Component Shield DCR	13.9 Ω/1000ft @20°C, Nominal
g) OA Shield DCR	6 Ω/1000ft @20°C, Nominal
3) Component 2	
a) Ground Capacitance	94 pF/ft @1 kHz, Nominal
b) Inductance	0.044 μH/ft, Nominal
c) Conductor DCR	15.4 Ω/1000ft @20°C, Nominal
d) OA Shield DCR	6 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)	
	<i>[Spool dimensions may vary slightly]</i>

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M9740500

M9740500, 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

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)

Maximum Control Value

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a 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 of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 8/7/2025

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