

Customer Specification

PART NO. 74006

Construction

						Diame	ters (In)	
1) Component 1		4 X 1 PAIR	4 X 1 PAIR					
a) Conductor 26		26 (19/38) /	AWG Bare Co	opper		0.020		
b) Insulation 0.0		0.010" Wall	0.010" Wall, Nom. Polypropylene(PP)			0.040		
(1) Color(s)								
Pair	Color		Pair	Color			Pair	Color
1	WHITE/BLUE - BLUI		3	WHITE/GREEN - GR	EEN			
2	WHITE/ORANGE - (ORANGE	4	WHITE/BROWN - BI	ROWN			
c) Pair		2/Cond Cal	oled Togethe	er				
(1) Twists:		Staggered I	Staggered Lays					
2) Cable Assembly		4 Compone	4 Components Cabled					
a) Twists:		5.3 Twists/f	5.3 Twists/foot (min)					
3) Shield:		Alum/Mylaı	Alum/Mylar Tape, 25% Overlap, Min.					
a) Foil Direction		Foil Facing	Foil Facing Out					
b) Braid		Tinned Cop	Tinned Copper,80% Coverage, Min.					
4) Jacket		0.031" Wall	0.031" Wall, Nom., TPU (ZH)			0.252 (0.266 Max.)	ı
a) Color(s)		BLACK	BLACK					
b) Jacket Separator Non		Nonwoven	Nonwoven Polyester Tape, 25% Overlap, Min.					
c) Print		INDUSTRIA ANSI/TIA-5 CE ROHS (S	ALPHA WIRE-* P/N 74006 4PR 26 AWG INDUSTRIAL ETHERNET SHIELDED ANSI/TIA-568-C.2 CAT5E VERIFIED CE ROHS (SEQ FOOTAGE) * = Factory Code					

Applicable Specifications

1) CSA International	FT2			
2) IEC	EN 60811-2-1 Oil Resistance			
	EN 60754-1 Acid Gas Generation			
3) Other	ANSI/TIA-568-C.2 Category 5e			
	ISO/IEC 11801 Category 5e Patch Cable			
	EN 50173-1			
4) CE:	EU Low Voltage Directive 2014/35/EC			

Environmental

1)	CE: I	EU	Directive	2011	/65/EU(RoHS2):
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This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011and the amending Directive 2015/863/EU of 4 June 2015. 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 <u>Alpha's REACH SVHC Declaration</u>.

Properties		

		Physica	al & Mech	anical Pro _l	perties				
1) Temperature Range				-40 to 80°C(static), -5 to 50°C (dynamic)					
2) Bend Radius				5X Cable D	Diameter(static), 10	K Cable Diameter(d	ynamic)		
3) Pull Tension				18 Lbs, Ma	aximum				
4) Continuous Flex				2 million c	ycles				
5) Torsional Flex				1 million cycles					
Electrical Properties					(For Engineering purposes only)				
1) Max. operating vo	ltage UL			300 V _{RMS}					
2) Dielectric strength	cond. – cond. (2 sec.)			2.5kVdc					
3) D.C. resistance co	nductor			<140 Ω/kr	n				
4) Resistance unbala	nce			< 2%					
5) D.C. insulation res	istance			> 5000 MΩ.km					
6) Mutual capacitano	e			< 56 nF/km					
7) Capacitance unba	lance			< 1600 pF/km					
8) Velocity of propagation @ 4 - 100MHz					≥ 60%				
9) Skew @ 1 - 100 M	lHz			≤ 40 ns/10	00m				
10) Propagation dela	ay @ 1 - 100 MHz			≤ 534 + 36	6/√f ns/100m				
11) Mean characteris	tic impedance (Zcm) @ 1	00 MHz		100 ± 15 Ω	2				
12) Input impedance	4 - 100MHz			100 ± 15 Ω					
Frequency(MHz)	Max. Attenuation(dB/100m)	Min. NEXT(dB)	Min. PS-	NEXT(dB)	Min. ELFEXT(dB/100m)	Min. PS- ELFEXT(dB/100m)	Min. RL(dB)		
1	3.2	65	62		64	61	20		
4	6.2	56	53		52	49	23		
10	9.5	50	47		44	41	25		
16	12.1	47	44		40	37	25		
31.25	17.9	43	40		34	31	23.6		
62.5	24.8	38	35		28	25	21.5		
100	32.0	35	32		24	21	20.1		

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 500 FT	12 x 6 x 3.5 Continuous length	
	[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: 74006

74006, RoHS-Compliant Commencing With 9/30/2013 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	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 4/28/2024

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