

# **Customer Specification**

### **PART NO. 74003**

### **Construction**

					Diame	eters (In)	
1) Component 1		2 X 1	2 X 1 PAIR				
a) Conductor		26 (7/	26 (7/34) AWG Bare Copper				
b) Insulation		0.010	0.010" Wall, Nom. Polypropylene(PP)				
(1) Color(s)							
Pair	Color		Pair	Color		Pair	Color
1	WHITE/BLUE - BLUE		2	WHITE/ORANGE - OF	RANGE		
c) Pair	2/Cond Cabled Together			Гogether			
(1) Twists:		Stagg	Staggered Lays				
2) Cable Ass	sembly	2 Con	2 Components Cabled				
a) Twists:		6.9 Tv	6.9 Twists/foot (min)				
c) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.					
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.					
a) Foil Direction		Foil Facing Out					
b) Braid		Tinne	Tinned Copper,80% Coverage, Min.				
4) Jacket		0.031	0.031" Wall, Nom.,PVC			(0.249 Max.)	
a) Color(s)		BLACK					
b) Ripcord		1 End	1 End 810 Denier Nylon				
c) Print		INDU: ANSI/ CE RC	ALPHA WIRE-* P/N 74003 2PR 26 AWG INDUSTRIAL ETHERNET SHIELDED ANSI/TIA-568-C.2 CAT5E VERIFIED CE ROHS (SEQ FOOTAGE) * = Factory Code				

# **Applicable Specifications**

1) IEC	EN 60811-2-1 Oil Resistance		
	EN 60332-1 Flame Behavior		
2) Other	ISO/IEC 11801 Category 5e Patch Cable		
	ISO/IEC 24702		
	EN 50173-1		
	ANSI/TIA-568-C.2 Category 5e		
3) CE:	EU Low Voltage Directive 2014/35/EC		

#### **Environmental**

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>.

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Properties			

	P	hysical & Mec	hanical Prop	erties		
1) Temperature Range				-40 to 80°C		
2) Bend Radius			5X Cable Diameter(static), 10X Cable Diameter(dynamic)			
3) Pull Tension				9 Lbs, Maximum		
	Electrical Properties		(For Engineering purposes only)			
1) Max. operating voltage UL				300 V <sub>RMS</sub>		
2) Dielectric strength cond. – cond. (2 sec.)				2.5kVdc		
3) D.C. resistance cond	uctor		< 140 Ω/kn	n		
4) Resistance unbalanc	e		< 2%			
5) D.C. insulation resist	ance		> 5000 MΩ.km			
6) Mutual capacitance			< 56 nF/km			
7) Capacitance unbalance				< 1600 pF/km		
8) Velocity of propagat	tion @ 4 – 100 MHz		≥ 60%			
9) Skew @ 1 – 100 MHz				≤ 40 ns/100m		
10) Propagation delay @ 1 – 100 MHz				≤ 534 + 36/√f ns/100m		
11) Mean characteristic impedance (Zcm) @ 100 MHz				100 ± 15 Ω		
12) Input impedance 1	-100MHz		100 ± 15 Ω			
Frequency(MHz)	Max. Attenuation(dB/100m)	Min. NEXT(d	B)	Min. ELFEXT(dB/100m)	Min. RL(dB)	
0.772	-	67		-	19.4	
1	3.2	65.3		63.8	20	
4	6.0	56.3		51.8	23	
10	9.5	50.3		43.8	25	
16	12.1	47.2		39.7	25	
20	13.6	45.8		37.8	25	
25	15.3	44.3		35.8	24.3	
31.25	17.1	42.9		33.9	23.6	
62.5	24.8	38.3		27.9	21.5	
100	32	35.3		23.8	20.1	

#### Other

12 x 6 x 3.5 Continuous length
[Spool dimensions may vary slightly]

#### www.alphawire.com

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## **EU/UK/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 74003

74003, 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 4/26/2024

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