

# **Customer Specification**

# **PART NO. 74001**

### Construction

						Diameters (In)	
1) Component 1						1 X 4 COND	
a) Conductor						22 (19/34) AWG Tinned Copper	0.032
b) Insulation						0.016" Wall, Nom. Polyolefin	0.064
(1) Color	·(s)						
Cond	Color	Cond	Color	Cond	Color		
1	WHITE	3	YELLOW				
2	BLUE	4	ORANGE				
c) Cablin	g	· ·		· ·	· · · · · · · · · · · · · · · · · · ·	4 COND Cabled	
(1) Twist	s:					6.9 Twists/foot (min)	
d) Jacket	t					0.005" Wall, Nom.,FRNHPO	0.166
(1) Color	·(s)					WHITE	
2) Shield	:					Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction						Foil Facing Out	
b) Braid						Tinned Copper,85% Coverage, Min.	
3) Jacket						0.031" Wall, Nom., TPU (ZH)	0.256 (0.271 Max.)
a) Color(s)						GREEN	
b) Jacket Separator						Nonwoven Polyester Tape, 25% Overlap, Min.	
c) Print						ALPHA WIRE-* P/N 74001 4C 22 AWG INDUSTRIAL ETHERNET PROFINET TYPE C SHIELDED ANSI/TIA-568-C.2 CAT5E VERIFIED FT2 CE ROHS (SEQ FOOTAGE) * = Factory Code	

## **Applicable Specifications**

1) UL	AWM/STYLE 20549	80°C / 300 V <sub>RMS</sub>
2) CSA International	FT2	
3) IEC	EN 60811-2-1 Oil Resistance	
4) Other	ISO/IEC 11801 Category 5	
5) CE:	EU Low Voltage Directive 2014/35/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 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 <u>RoHS C of C</u> .
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

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	Physical & Mecha	nical Prop	perties		
1) Temperature R	ange		-40 to 80°C		
2) Bend Radius			5X Cable Diameter(static), 10X Cable Diameter(dynamic)		
3) Pull Tension			28 Lbs, Maximum		
4) Continuous Fle	x				5 million cycles
5) Torsional Flex					1 million cycles
	Electrical P	roperties	(For Engineering purposes only)		
1) Max. operating	voltage UL				300 V <sub>RMS</sub>
2) Test voltage wi	re-wire/wire-screen				2.5kVdc
3) Maximum cond	luctor DC-resistance @	20°C			57.1 Ω/km
4) Transfer imped	ance @ 10MHz				< 10 mOhm/m
5) Nom. velocity o	of propagation				68 %
6) Delay					< 5.3 ns/m
7) Impedance @ <sup>-</sup>	1 – 100 MHz				100 ± 15 Ω
8) ISO/IEC 11801	ed. 2.0, Cat.5 as a minim	num.			
Frequency(MHz)	Max. Attenuation(dB/100m)	Min. NEXT(dB)	Min. ELFEXT(dB/100m)	Min. RL(dB)	
1	2.1	65	64	-	
4	4	56	52	23	
10	6.3	50	44	25	
16	8	47	40	25	
31.25	11.4	43	34	23.6	
62.5	16.5	38	28	21.5	
100	21.3	35	24	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]

#### www.alphawire.com

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### Tel: 1-800-52 ALPHA

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

To Whom It May Concern:

Alpha Wire Part Number: 74001

74001, 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 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)

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 3/31/2025

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