

# **Customer Specification**

## **PART NO. 74003**

### Construction

						Diameter ("in")	
1) Component 1					2 x 1 PAIR		
a) Conductor					26 (7/34) AWG Bare Copper	0.019	
b) Insulation					0.010" Wall, Nom. Polypropylene (PP)	0.039	
(1) Co	olor(s)						
Pair	Color	Pair	Color	Pair	Color		
1	WHITE/BLUE - BLUE	2	WHITE/ORANGE - ORANGE				
c) Pai	r					2/Cond Cabled Together	
(1) Tv	vists					Staggered Lays	
2) Ca	ble Assembly					2 Components Cabled	
a) Tw	ists					6.9 Twists/ft. (min.)	
c) Co	re Wrap					Clear Mylar Tape, 25% Overlap (min.)	
3) Shield					Alum/Mylar Tape, 25% Overlap (min.)		
a) Foil Direction					Foil Facing Out		
b) Braid					Tinned Copper,80% Coverage (min.)		
4) Jacket					0.031" Wall, Nom., PVC	0.236 (0.249 max.)	
a) Color(s)					BLACK		
b) Ripcord				1 End 810 Denier Nylon			
c) Print				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**

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

### 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. Refer to the <u>RoHS</u> <u>Certificate of Compliance</u> for more detail.
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 Alpha's <u>REACH SVHC Declaration</u> .

# Properties

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	Physical & Mecha	nical 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. max.
	Electrical P	roperties			Engineering purposes only
1) Max. operating voltage UL				300 V <sub>RMS</sub>	
2) Dielectric strer	igth cond. – cond. (2 sec	)			2.5kVdc
3) D.C. resistance	conductor				< 140 ω/km
4) Resistance unb	balance				< 2%
5) D.C. insulation	resistance				> 5000 Mω.km
6) Mutual capacit	ance				< 56 nF/km
7) Capacitance ur	nbalance				< 1600 pF/km
8) Velocity of pro	pagation @ 4 – 100 MH	Z			≥ 60%
9) Skew @ 1 – 10	0 MHz				≤ 40 ns/100m
10) Propagation	delay @ 1 – 100 MHz				≤ 534 + 36/√f ns/100m
11) Mean charact	eristic impedance (Zcm)	@ 100 MI	Hz		100 ± 15 ω
12) Input impeda	nce 1-100MHz				100 ± 15 ω
Frequency(MHz)	Max. Attenuation(dB/100m)	Min. NEXT(dB)	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

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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# **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 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 12/9/2024

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# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Alpha Wire:

74003 BK002