

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Request a Sample

Customer Specification PART NO. 74002

Construction

				Diameters (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) Color(s)					
Pair	Color	Pair	Color	Pair	Color
1	WHITE/BLUE - BLUE	2	WHITE/ORANGE - ORANGE		
c) Pair		2/Cond Cabled Together			
(1) Twists:		Staggered Lays			
2) Cable Assembly		2 Components Cabled			
a) Twists:		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		Tinned Copper,80% Coverage, Min.			
4) Jacket		0.031" Wall, Nom., TPU (ZH)		0.236 (0.249 Max.)	
a) Color(s)		BLACK			
b) Ripcord		1 End 810 Denier Nylon			
c) Print		ALPHA WIRE-* P/N 74002 2PR 26 AWG INDUSTRIAL ETHERNET SHIELDED ANSI/TIA-568-C.2 CAT5E VERIFIED CE ROHS (SEQ FOOTAGE) * = Factory Code			

Applicable Specifications

1) UL	AWM/STYLE 20549	80°C / 300 V _{RMS}
2) CSA International	FT2	
3) IEC	EN 60811-2-1 Oil Resistance	
	EN 60754-2 Acid Gas Generation	
4) Other	ISO/IEC 11801 Category 5e Patch Cable	
	ISO/IEC 24702	
	EN 50173-1	
	ANSI/TIA-568-C.2 Category 5e	
5) CE:	EU Low Voltage Directive 2014/35/EC	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):				
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and 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 Alpha's REACH SVHC Declaration.			
3) California Proposition 65:	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.			

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Properties

Physical & Mechanical Properties		
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} RMS	
2) Dielectric strength cond. – cond. (2 sec.)	2.5kVdc	
3) D.C. resistance conductor	< 140 Ω/km	
4)Resistance unbalance	< 2%	
5) D.C. insulation resistance	> 5000 MΩ.km	
6)Mutual capacitance	< 56 nF/km	
7) Capacitance unbalance	< 1600 pF/km	
8) Velocity of propagation @ 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	
	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]	

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 74002

74002, RoHS-Compliant Commencing With 9/30/2013 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above 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) 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.

Maximum Control Value
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
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 & QA Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000 9/23/2019