

# Especificación de Cliente

## NO. DE PIEZA 76030

### Construction

						Diameters (In)	
1) Component 1						4 X 1 PAIR	
a) Conductor						24 (7/32) AWG Tinned Copper	
b) Insulation						0.0085" Wall, Nom. FRPE	
(1) Color(s)							
Pair	Color	Pair	Color	Pair	Color		
1	WHITE/BLUE - BLUE	3	WHITE/GREEN - GREEN				
2	WHITE/ORANGE - ORANGE	4	WHITE/BROWN - BROWN				
c) Pair						2/Cond Cabled Together	
(1) Twists:						16.0 Twists/foot (approx.)	
2) Cable Assembly						4 Components Cabled	
a) Twists:						2.0 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap						Clear Mylar Tape, 25% Overlap, Min.	
3) Jacket						0.032" Wall, Nom., TPE	
a) Color(s)						TEAL	
b) Print						ALPHA WIRE-A3 P/N 76030 HIGH FLEX CAT5E UTP 4P 24AWG E163860 C(UL)US CMX-OUTDOOR - CM 75C SUN RES OR AWM 2463 80C 600V OIL RES II CE ROHS (SEQ FOOTAGE) <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>	

### Applicable Specifications

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1) UL	CM	75°C
	CMX-Outdoor	75°C
	SUN RES	
	AWM/STYLE 2463	80°C / 600 V <sub>RMS</sub>
2) Other	ISO/IEC 11801 Category 5	
	ANSI/TIA-568.2-D Category 5e	
	OIL RES II	
	ODVA EtherNet/IP (TM) Compliant Category 5e	
3) CE:	EU Low Voltage Directive 2014/35/EU	

## 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.
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.

## Properties

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Physical & Mechanical Properties																																													
1) Temperature Range	-40 to 80°C																																												
2) Bend Radius	4X Cable Diameter(static), 20X Cable Diameter(dynamic)																																												
3) Pull Tension	28 Lbs, Maximum																																												
4) Sunlight Resistance	Yes																																												
5) Cable Weight	32 Lbs/1000Ft																																												
Electrical Properties																																													
(For Engineering purposes only)																																													
1) Voltage Rating	600 V <sub>RMS</sub>																																												
2) Characteristic Impedance	100 $\omega$ +/- 15																																												
3) Capacitance Unbalance	330 pf/100m @1 kHz, Maximum																																												
4) Velocity of Propagation	67 %																																												
5) Conductor DCR	14 $\omega$ /100m @20°C, Maximum																																												
6) DCR Unbalance	5 % Maximum																																												
7) Skew	45 ns/100m Maximum																																												
<table border="1"> <thead> <tr> <th>Frequency [MHz]</th> <th>Max. Insertion Loss [dB]</th> <th>Min. NEXT [dB]</th> <th>Mir</th> </tr> </thead> <tbody> <tr><td>1</td><td>2.4</td><td>65.3</td><td></td></tr> <tr><td>4</td><td>4.9</td><td>56.3</td><td></td></tr> <tr><td>8</td><td>6.9</td><td>51.8</td><td></td></tr> <tr><td>10</td><td>7.8</td><td>50.3</td><td></td></tr> <tr><td>16</td><td>9.9</td><td>47.2</td><td></td></tr> <tr><td>20</td><td>11.1</td><td>45.8</td><td></td></tr> <tr><td>25</td><td>12.5</td><td>44.3</td><td></td></tr> <tr><td>31.25</td><td>14.1</td><td>42.9</td><td></td></tr> <tr><td>62.5</td><td>20.4</td><td>38.4</td><td></td></tr> <tr><td>100</td><td>26.4</td><td>35.3</td><td></td></tr> </tbody> </table>		Frequency [MHz]	Max. Insertion Loss [dB]	Min. NEXT [dB]	Mir	1	2.4	65.3		4	4.9	56.3		8	6.9	51.8		10	7.8	50.3		16	9.9	47.2		20	11.1	45.8		25	12.5	44.3		31.25	14.1	42.9		62.5	20.4	38.4		100	26.4	35.3	
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## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	16 x 11 x 8 Continuous length
b) 100 FT	12 x 4.5 x 3.5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

[www.alphawire.com](http://www.alphawire.com)

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# EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 76030

76030, RoHS-Compliant Commencing With 01/01/0001 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 Union (RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. 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 **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control"

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 this document. This document is intended to be used as a 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 to provide Regulatory information for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulatory requirements. Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA 04/06/2026

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