

## Customer Specification

### PART NO. 74010

### Construction

						Diameter ("in")	
1) Component 1						1 x 4 PAIR	
a) Conductor						23 (SOLID) AWG Bare Copper	0.022
b) Insulation						0.009" Wall, Nom. Polyolefin	0.038
(1) Color(s)							
Pair	Color	Pair	Color	Pair	Color		
1	BLUE - WHITE/BLUE	3	GREEN - WHITE/GREEN				
2	ORANGE - WHITE/ORANGE	4	BROWN - WHITE/BROWN				
c) Pair						Bonded Pair	
(1) Twists						Staggered Lays	
d) Cabling						4 PAIR Cabled	
(1) Orientation						Parallel	
e) Jacket						0.018" Wall, Nom., PVC	
(1) Color(s)						WHITE	
(2) Ripcord						1 End 810 Denier Nylon	
2) Jacket						0.035" Wall, Nom., PVC	0.475X0.265
						(0.489X0.289 max.)	
a) Color(s)						BLACK	
b) Ripcord						1 End 810 Denier Nylon	
c) Print						ALPHA WIRE-* P/N 74010 4PR 23 AWG 75C (UL) CMR OR C(UL) CMR --- TIA-568-C.2 & ISO/IEC 11801 CAT 6 SUN RES OIL RES II --- US PATENT 6273977, 5821467 CE ROHS (2 FT, 7 DIGIT SEQUENTIAL NUMBER) FT <i>Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.</i>  * = Factory Code	

### Applicable Specifications

1) UL	CMR	75°C
2) CSA International	C(UL) TYPE CMR	75°C
	FT4	
3) Other	TIA-568-C.2 Cat6 ISO/IEC 11801 Category 6	
4) 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. Refer to the <a href="#">RoHS Certificate of Compliance</a> 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 <a href="#">REACH SVHC Declaration</a> .
3) California Proposition 65	Exempt from warning labels based on the Consent Judgment. Please see <a href="#">Alpha's CA Prop 65 Statement</a> for more information.

## Properties

Physical & Mechanical Properties	
1) Temperature Range	-25 to 75°C
2) Bend Radius	4X Cable Diameter
3) Pull Tension	32 lbs. max.
4) Sunlight Resistance	Yes
5) Cable Weight	30 lbs./1000ft.
Electrical Properties	
	<i>Engineering purposes only</i>
1) Voltage Rating	300 V <sub>RMS</sub>
2) Characteristic Impedance	100 ω  +/- 15
3) Mutual Capacitance	15 pF/ft @1 kHz, Nominal
4) Velocity of Propagation	70%
5) Conductor DCR	27.4 ω/1000ft. @20°C, Nominal

Frequency(MHz)	Max. Attenuation(dB/100m)	Min. NEXT(dB)	Min. PSNEXT(dB)	Min. ACR(dB)
1	1.9	74.3	72.3	70
4	3.7	65.3	63.3	59
8	5.3	60.3	58.3	53
10	5.9	59.3	57.3	51
16	7.5	56.3	54.3	46
20	8.4	54.8	52.8	44
25	9.5	53.4	51.4	42
31.25	10.6	51.9	49.9	39
62.5	15.4	47.4	45.4	30
100	19.8	44.3	42.3	25
155	25.1	41.5	39.5	14
200	29	39.9	37.9	10

  

Frequency (MHz)	Min. PSACR(dB)	Min. RL(dB)	Min. ELFEXT(dB)	Min. PSELFEXT(dB)
1	70	20	67.8	64.8
4	59	23	55.7	52.7
8	53	24.5	49.7	46.7
10	51	25	47.8	44.8
16	46	25	43.7	40.7
20	44	25	41.7	38.7
25	42	24.3	39.8	36.8
31.25	39	23.6	37.9	34.9
62.5	30	21.5	31.8	28.8
100	25	21	27.8	24.8
155	14	21	23.9	20.9
200	10	21	21.7	18.7

# Other

Packaging	Flange x Traverse x Barrel (inches)
a) 500 FT	16 x 11 x 8 Continuous Length
	<i>Spool dimensions may vary slightly.</i>

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## EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 74010

74010, 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

Lead  
Mercury  
Cadmium  
Hexavalent Chromium  
Polybrominated Biphenyls (PBB)  
Polybrominated Diphenyl Ethers (PBDE) ,  
Including Deca-BDE  
Bis(2-ethylhexyl) phthalate (DEHP)  
Butyl benzyl phthalate (BBP)  
Dibutyl phthalate (DBP)  
Diisobutyl phthalate (DIBP)

### 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)  
  
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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 12/13/2025

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