

Customer Specification

PART NO. 76033

Construction

						Diameters (In)	
1) Component 1						4 X 1 PAIR	
a) Conductor						26 (7/34) AWG Tinned Copper	0.019
b) Insulation						0.0075" Wall, Nom. Polyethylene, High Density	0.034
(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:						19.2 Twists/foot (approx.)	
2) Cable Assembly						4 Components Cabled	
a) Twists:						4.8 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap						Foam Polypropylene Tape, 25% Overlap, Min.	
3) Shield:						Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction						Foil Facing Out	
b) Braid						Tinned Copper, 75% Coverage, Min.	
4) Jacket						0.035" Wall, Nom., TPE	0.290+/- 0.015
a) Color(s)						TEAL	
b) Print						ALPHA WIRE-A3 P/N 76033 HIGH FLEX CAT6A SF/UTP 4P 26AWG E163860 C(UL)US CMX-OUTDOOR - CMR 75C SUN RES OR AWM 2463 80C 600V OIL RES II CE ROHS (SEQ FOOTAGE) [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]	

Applicable Specifications

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Physical & Mechanical Properties																																																			
1) Temperature Range		-40 to 80°C																																																	
2) Bend Radius		4X Cable Diameter(static), 18X Cable Diameter(dynamic)																																																	
3) Pull Tension		21.7 Lbs, Maximum																																																	
4) Sunlight Resistance		Yes																																																	
5) Cable Weight		40 Lbs/1000Ft																																																	
Electrical Properties		(For Engineering purposes only)																																																	
1) Voltage Rating		600 V _{RMS}																																																	
2) Characteristic Impedance		100 ω +/- 15																																																	
3) Capacitance Unbalance		330 pf/100m @1 kHz, Maximum																																																	
4) Velocity of Propagation		68 %																																																	
5) Conductor DCR		21.2 ω/100m @20°C, Maximum																																																	
6) DCR Unbalance		4 % Maximum																																																	
7) Skew		45 ns/100m Maximum																																																	
<table><tr><th>Frequency [MHz]</th><th>Max. Insertion Loss [dB]</th><th>Min. NEXT [dB]</th></tr><tr><td>1</td><td>3.1</td><td>74.3</td></tr><tr><td>4</td><td>5.7</td><td>65.3</td></tr><tr><td>8</td><td>8.0</td><td>60.8</td></tr><tr><td>10</td><td>8.9</td><td>59.3</td></tr><tr><td>16</td><td>11.2</td><td>56.2</td></tr><tr><td>20</td><td>12.6</td><td>54.8</td></tr><tr><td>25</td><td>14.1</td><td>53.3</td></tr><tr><td>31.25</td><td>15.8</td><td>51.9</td></tr><tr><td>62.5</td><td>22.5</td><td>47.4</td></tr><tr><td>100</td><td>28.7</td><td>44.3</td></tr><tr><td>200</td><td>41.4</td><td>39.8</td></tr><tr><td>250</td><td>46.6</td><td>38.3</td></tr><tr><td>300</td><td>51.4</td><td>37.1</td></tr><tr><td>400</td><td>60.1</td><td>35.3</td></tr><tr><td>500</td><td>67.9</td><td>33.8</td></tr></table>		Frequency [MHz]	Max. Insertion Loss [dB]	Min. NEXT [dB]	1	3.1	74.3	4	5.7	65.3	8	8.0	60.8	10	8.9	59.3	16	11.2	56.2	20	12.6	54.8	25	14.1	53.3	31.25	15.8	51.9	62.5	22.5	47.4	100	28.7	44.3	200	41.4	39.8	250	46.6	38.3	300	51.4	37.1	400	60.1	35.3	500	67.9	33.8	M	
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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
	[Spool dimensions may vary slightly]

www.alphawire.com

Alpha Wire
2200 US Highway 27 South
Richmond, IN 47374

Tel: 1-800-52 ALPHA

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2200 US Highway 27 South
Richmond, IN 47374
Tel: 1-800-52 ALPHA
Web: www.alphawire.com

EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 76033

76033, RoHS-Compliant Commencing With 1/1/0001 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 6/17/2026

Alpha Wire
2200 US Highway 27 South
Richmond, IN 47374
Tel: 1-908-925-8000