

Customer Specification

PART NO. 76032

Construction

						Diameters (In)	
1) Component 1						4 X 1 PAIR	
a) Conductor						24 (7/32) AWG Tinned Copper	0.024
b) Insulation						0.0105" Wall, Nom. Polyethylene, High Density	0.045
(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:						24.0 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						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	0.322 +/- 0.015
a) Color(s)						TEAL	
b) Print						ALPHA WIRE-A3 P/N 76032 HIGH FLEX CAT6A SF/UTP 4P 24AWG 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

Physical & Mechanical Properties																																																																			
1) Temperature Range		-40 to 80°C																																																																	
2) Bend Radius		8X Cable Diameter(static), 16X Cable Diameter(dynamic)																																																																	
3) Pull Tension		32 Lbs, Maximum																																																																	
4) Sunlight Resistance		Yes																																																																	
5) Cable Weight		48 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		67 %																																																																	
5) Conductor DCR		14 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><th>Min. PSNE [dB]</th></tr><tr><td>1</td><td>2.5</td><td>74.3</td><td>72.3</td></tr><tr><td>4</td><td>4.6</td><td>65.3</td><td>63.3</td></tr><tr><td>8</td><td>6.4</td><td>60.8</td><td>58.8</td></tr><tr><td>10</td><td>7.1</td><td>59.3</td><td>57.3</td></tr><tr><td>16</td><td>9.0</td><td>56.2</td><td>54.2</td></tr><tr><td>20</td><td>10.1</td><td>54.8</td><td>52.8</td></tr><tr><td>25</td><td>11.3</td><td>53.3</td><td>51.3</td></tr><tr><td>31.25</td><td>12.6</td><td>51.9</td><td>49.9</td></tr><tr><td>62.5</td><td>18.0</td><td>47.4</td><td>45.4</td></tr><tr><td>100</td><td>23.0</td><td>44.3</td><td>42.3</td></tr><tr><td>200</td><td>33.1</td><td>39.8</td><td>37.8</td></tr><tr><td>250</td><td>37.3</td><td>38.3</td><td>36.3</td></tr><tr><td>300</td><td>41.1</td><td>37.1</td><td>35.1</td></tr><tr><td>400</td><td>48.1</td><td>35.3</td><td>33.3</td></tr><tr><td>500</td><td>54.3</td><td>33.8</td><td>31.8</td></tr></table>		Frequency [MHz]	Max. Insertion Loss [dB]	Min. NEXT [dB]	Min. PSNE [dB]	1	2.5	74.3	72.3	4	4.6	65.3	63.3	8	6.4	60.8	58.8	10	7.1	59.3	57.3	16	9.0	56.2	54.2	20	10.1	54.8	52.8	25	11.3	53.3	51.3	31.25	12.6	51.9	49.9	62.5	18.0	47.4	45.4	100	23.0	44.3	42.3	200	33.1	39.8	37.8	250	37.3	38.3	36.3	300	41.1	37.1	35.1	400	48.1	35.3	33.3	500	54.3	33.8	31.8		
Frequency [MHz]	Max. Insertion Loss [dB]	Min. NEXT [dB]	Min. PSNE [dB]																																																																
1	2.5	74.3	72.3																																																																
4	4.6	65.3	63.3																																																																
8	6.4	60.8	58.8																																																																
10	7.1	59.3	57.3																																																																
16	9.0	56.2	54.2																																																																
20	10.1	54.8	52.8																																																																
25	11.3	53.3	51.3																																																																
31.25	12.6	51.9	49.9																																																																
62.5	18.0	47.4	45.4																																																																
100	23.0	44.3	42.3																																																																
200	33.1	39.8	37.8																																																																
250	37.3	38.3	36.3																																																																
300	41.1	37.1	35.1																																																																
400	48.1	35.3	33.3																																																																
500	54.3	33.8	31.8																																																																

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

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure the accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

ALPHA WIRE - CONFIDENTIAL AND PROPRIETARY Notice to persons receiving this document and/or technical information. This document is confidential and is the exclusive property of ALPHA WIRE, and is merely on loan and subject to recall by ALPHA WIRE at any time. By taking possession of this document, the recipient acknowledges and agrees that this document cannot be used in any manner adverse to the interests of ALPHA WIRE, and that no portion of this document may be copied or otherwise reproduced without the prior written consent of ALPHA WIRE. In the case of conflicting contractual provisions, this notice shall govern the status of this document.

©2019 ALPHA WIRE - all rights reserved.



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: 76032

76032, 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)

0.1% by weight (1000 ppm)
0.1% by weight (1000 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 1/29/2026

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