

# **Customer Specification**

## **PART NO. 75034**

### **Construction**

					Diameters (In)	
1) Component 1					2 X 1 PAIR	
a) Conductor					22 (19/34) AWG Tinned Copper	0.032
b) Insulation					0.0135" Wall, Nom. Polyethylene, High Density	0.059
(1) Color(s)						
Pair Color Pair Color Pair Color						
1	WHITE/ORANGE - ORANGE	2	WHITE/GREEN - GREEN			
c) Pa	ir				2/Cond Cabled Together	
(1) Tv	wists:				16.0 Twists/foot (approx.)	
2) Ca	ble Assembly				2 Components Cabled	
a) Tw	vists:				2.0 Twists/foot (min)	
b) Orientation:					Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Co	re 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				0.040" Wall, Nom.,TPE	0.310+/- 0.01	
a) Color(s)					TEAL	
b) Print				ALPHA WIRE-A3 P/N 75034 HIGH FLEX CAT5E SF/UTP 2P 22AWG E163860 C(UL)US CMX-OUTDOOR - CM 75C SUN RES OR TYPE PLTC OIL RES I/II OR AWM 2463 80C 600V CE ROHS (SEQ FOOTAGE) [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]		

## **Applicable Specifications**

1) UL	СМ	75°C	
	CMX-Outdoor	75°C	
	OIL RES I/II		
	SUN RES		
	AWM/STYLE 2463	80°C / 600 V <sub>RMS</sub>	
	PLTC	75°C	
2) Other	ISO/IEC 11801 Category 5		
	ANSI/TIA-568.2-D Category 5e		
	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			

Physical & Mechanical Properties				
1) Temperature Range	-40 to 80°C			
2) Bend Radius	8X Cable Diameter(static), 7X Cable Diameter(dynamic)			
3) Pull Tension	27 Lbs, Maximum			
4) Sunlight Resistance	Yes			
5) Cable Weight	46 Lbs/1000Ft			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	600 V <sub>RMS</sub>			
2) Characteristic Impedance	100 ω +/- 15			
3) Capacitance Unbalance	330 pf/100m @1 kHz, Maximum			
4) Velocity of Propagation	66 %			
5) Conductor DCR	9.38 ω/100m @20°C, Maximum			
6) DCR Unbalance	5 % Maximum			
7) Skew	45 ns/100m Maximum			

Frequency [MHz]	Max. Insertion Loss [dB]	Min. NEXT [dB]	Min.
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	

#### **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 there 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. <br/>br /> <br/>©2019 ALPHA WIRE - all rights reserved.



Alpha Wire □□□□75034

75034000RoHS0000 0001/1/1 000000

Lead Mercury □□□□□□□□0.1% (1000 ppm) Cadmium Hexavalent Chromium □□□□□□□□0.1% (1000 ppm) Polybrominated Biphenyls (PBB) □□□□□□□□0.1% (1000 ppm) Polybrominated Diphenyl Ethers (PBDE), □□□□□□□□0.1% (1000 ppm) Including Deca-BDE Bis(2-ethylhexyl) phthalate (DEHP) Butyl benzyl phthalate (BBP) Dibutyl phthalate (DBP) □□□□□□□□0.1% (1000 ppm) Diisobutyl phthalate (DIBP)

Alpha Wire 00000000

□□□□□□□ Dave Watson 2025/4/2