

# **Customer Specification**

### **PART NO. 74007**

### Construction

						Diameter ("in")	
1) Component 1					1 x 4 COND		
a) Conductor					22 (19/34) AWG Tinned Copper	0.032	
b) Insulation					0.015" Wall, Nom. Polyolefin	0.062	
(1) Color(s)							
Cond	Color	Cond	Color	Cond	Color		
1	WHITE	3	YELLOW				
2	BLUE	4	ORANGE				
c) Cabling					4 COND Cabled		
(1) Twists	s					6.0 Twists/ft. min.	
d) Jacket					0.009" Wall, Nom., LSZH	0.169	
(1) Color(s)					WHITE		
2) Shield					Alum/Mylar Tape, 25% Overlap (min.)		
a) Foil Direction					Foil Facing Out		
b) Braid					Tinned Copper, 80% Coverage (min.)		
3) Jacket					0.035" Wall, Nom., TPU (ZH)	0.264 (0.279 max.)	
a) Color(s)					BLACK		
b) Print					ALPHA WIRE-* P/N 74007 4C 22 AWG INDUSTRIAL ETHERNET PROFINET TYPE C SHIELDED CAT5E CE ROHS (SEQ FOOTAGE) * = Factory Code		

### **Applicable Specifications**

1) IEC	EN 60811-2-1 Oil Resistance	
	EN 60228 Conductors, Class 5	
	EN 60332-1 Flame Behavior	
	EN 60332-3 Flame Behavior	
	EN 60754-1 Acid Gas Generation	
	EN 60754-2 Acid Gas Generation	
	EN 61034-2 Smoke Emission	
2) Other	ISO/IEC 11801 Category 5e Patch Cable	
3) 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 <u>RoHS</u> <u>Certificate of Compliance</u> 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 <u>REACH SVHC Declaration</u> .

## Properties



	Physical & Mechani	cal Properties		
1) Temperature Range				-40 to 90°C
2) Bend Radius				5X Cable Diameter (static), 10X Cable Diameter (dynamic
3) Pull Tension				27 lbs. max.
	Electrical Pro	perties		Engineering purposes only
1) Max. operating	voltage UL			300 V <sub>RMS</sub>
2) Test voltage wir	e-wire/wire-screen			2.5kVdc
3) Maximum cond	uctor DC-resistance @ 20	)°C		57.1 ω/km
4) Transfer impeda	nce @ 10MHz			< 10 mOhm/m
5) Nom. velocity o	f propagation			66%
6) Delay				< 5.3 ns/m
7) Impedance @ 1	– 100 MHz			100 +/- 15 ω
8) ISO/IEC 11801 e	d. 2.0, Cat.5 as a minimu	m.		
Frequency(MHz)	Max. Attenuation(dB/100m)	Min. NEXT(dB)	Min. FEXT(dB/100m)	
1	2.1	65.3	64	
4	4.1	56.3	52	
10	6.5	50	43.8	
16	8.3	47	40	
31.25	11.7	42.9	33.9	
62.5	17.0	38.4	28	
100	22.0	35.3	24	

#### Other

Packaging	Flange x Traverse x Barrel (inches)
a) 500 FT	12 x 6 x 3.5 Continuous Length
	Spool dimensions may vary slightly.

#### www.alphawire.com

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# **EU/UK/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 74007

74007, 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 2 per GB/T 26572-2011.

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 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 12/17/2024

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# **Mouser Electronics**

Authorized Distributor

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74007 BK002