

## **Customer Specification**

## **PART NO. 74008**

#### Construction

					Diameters (l	ln)		
1) Component 1 1 X 4 PAIR		1 X 4 PAIR						
· · · · · · · · · · · · · · · · · · ·		24 (SOLID) AW	4 (SOLID) AWG Bare Copper			0.020		
		0.009" Wall, No	09" Wall, Nom. Polyolefin		0.035	0.035		
(1) Color(s)	)							
Pair	Color		Pair	Color	Color		Color	
1	BLUE - WHITE/BLUE		3	GREEN - WH	GREEN - WHITE/GREEN			
2	ORANGE - WHITE/O	TE/ORANGE 4 BROWN - WHIT		HITE/BROWN				
c) Pair			l Together					
(1) Twists:		Staggered Lays	Staggered Lays					
d) Cabling		4 PAIR Cabled						
(1) Twists:		4.8 Twists/foot (min)						
e) Jacket		0.018" Wall, Nom.,PVC			0.202			
(1) Color(s)		BLUE						
2) Jacket		0.035" Wall, Nom.,PVC			0.285 (0.299	0.285 (0.299 Max.)		
a) Color(s)		BLACK						
b) Ripcord 1 End 8		1 End 810 Den	End 810 Denier Nylon					
c) Print CAT 5E CMR SUN RES OIL CE ROHS (2) [Note: Production		CAT 5E CMR O SUN RES OIL R CE ROHS (2 FT,	* P/N 74008 4PR24 AWG VERIFIED (UL) OR C(UL) CMR ISO/IEC 11801 CAT 5E RES II US PATENT 6273977, 5821467 T, 7 DIGIT SEQUENTIAL NUMBER) FT t may have c(UL) or CSA markings depending upon plant of manufacture.] ode					

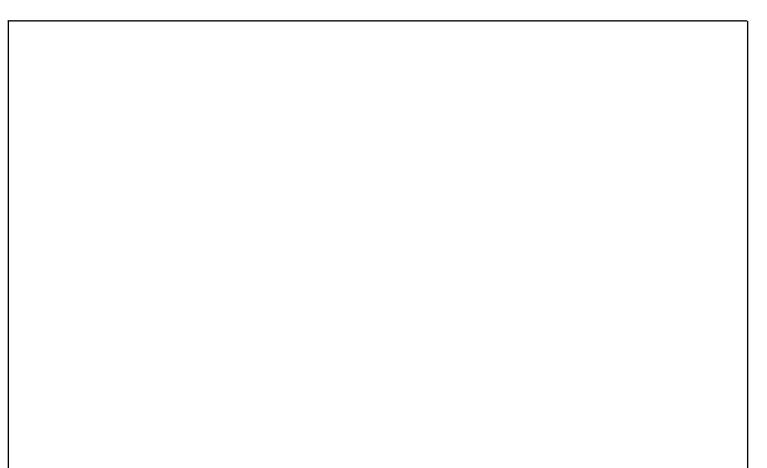
#### **Applicable Specifications**

1) UL	CMR	75°C		
	OIL RES I/II			
2) CSA International	C(UL) TYPE CMR	75°C		
	FT4			
3) Other	ISO/IEC 11801 Category 5e Horizontal Cable			
	TIA-568-C.2 Cat5e			
	NEMA WC-63.1 Category 5e			
4) CE:	EU Low Voltage Directive 2014/35/EC			

### Environmental

1) CE: EU Directive 2011/65/E	U(RoHS2):			
	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. Consult Alpha Wire's web site for <u>RoHS C of C</u> .			
2) REACH Regulation (EC 190	7/2006):			
	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 <u>Alpha's REACH SVHC Declaration</u> .			
3) California Proposition 65:	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement fo more information.			

## Properties



		Physical & Mecha	nical Properties		
1) Temperature Range			-10 to 75°C		
2) Bend Radius			4X Cable Diameter		
3) Pull Tension			25 Lbs, Maximum		
4) Sunlight Resistance		,	Yes		
5) Cable Weight			30 Lbs/1000Ft		
	Electrical Properties		(For Engineering purp	oses only)	
1) Voltage Rating			300 V <sub>RMS</sub>		
2) Characteristic Imped	ance		100 Ω +/- 15		
3) Mutual Capacitance			15 pF/ft @1 kHz, Nom	inal	
4) Velocity of Propagat	ion		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)	Min. PSACR(dB)
1	2	65.3	65.3	63.3	63.3
4	4	56.3	56.3	52.3	52.3
8	5.7	51.8	51.8	46.1	46.1
10	6.4	50.3	50.3	43.9	43.9
16	8.1	47.3	47.3	39.1	39.1
20	9.2	45.8	45.8	35.2	35.2
25	10.3	44.3	44.3	34.1	34.1
31.25	11.6	42.9	42.9	31.3	31.3
62.5	16.8	38.4	38.4	21.6	21.6
100	21.7	35.3	35.3	17.1	17.1
Frequency (MHz)	Input (unfitted) Imp. (Ohms)	Fitted Imp. (Ohms)	Min. ELFEXT(dB)	Min. PSELFEXT(dB)	Min. RL(dB)
1	100±12	100±10	63.8	60.8	20
4	100±12	100±10	51.7	48.7	23
8	100±12	100±10	45.7	42.7	24.5
10	100±12	100±10	43.8	40.8	25
16	100±12	100±10	39.7	36.7	25
20	100±12	100±10	37.7	34.7	25
25	100±15	100±10	35.8	32.8	24.3
31.25	100±15	100±10	33.9	30.9	23.6
62.5	100±15	100±10	27.8	24.8	21.5
100	100±15	100±10	23.8	20.8	20.1

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 500 FT	12 x 10 x 5 Continuous length
	[Spool dimensions may vary slightly]

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

To Whom It May Concern:

Alpha Wire Part Number: 74008

74008, 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)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 4/28/2024

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