



# **Customer Specification**

#### **PART NO. 5474L**

#### **Construction**

				Di	ameters (In)	
1) Component 1	4 X 1 PAIR	4 X 1 PAIR				
a) Conductor	24 (7/32) AWG Tin	24 (7/32) AWG Tinned Copper		0.0	0.024	
b) Insulation	0.010" Wall, Nom.	0.010" Wall, Nom. Low Smoke Zero Halogen (LSZH)		0.0	0.044	
(1) Color Code	Alpha Wire Color	Code K				
Pair	Color	Pair	Color		Pair	Color
1	BLACK-RED	3	BLACK-GREEN			
2	BLACK-WHITE	4	BLACK-BLUE			
c) Pair	2/Cond Cabled To	gether				
(1) Twists:	9.6 Twists/foot (m	9.6 Twists/foot (min)				
2) Cable Assemb	oly 4 Components Ca	bled				
a) Twists:	4.8 Twists/foot (m	4.8 Twists/foot (min)				
b) Orientation:	Components to be	Components to be arranged from INSIDE LAYER to OUTSIDE LAY		LAYER		
3) Shield:	Alum/Mylar Tape,	Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction	Foil Facing In	Foil Facing In				
b) Drain Wire	24 (7/32) AWG Tin	24 (7/32) AWG Tinned Copper				
4) Jacket	0.025" Wall, Nom.,	0.025" Wall, Nom.,Low Smoke Zero Halogen (LSZH)		0.2	229 (0.243 Max	x.)
a) Color(s)	SLATE	SLATE				
b) Print	EXXXXXX SHIELDE LSZH CE ROHS * = Factory Code					

### **Applicable Specifications**

1) UL	СМС	75°C
2) CSA International	FT4	
	C(UL) TYPE CMG	75°C
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 o 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 Regulati	ion (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	-20 to 75°C		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	32 Lbs, Maximum		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	300 V <sub>RMS</sub>		
2) Mutual Capacitance	28 pF/ft @1 kHz, Nominal		
3) Ground Capacitance	50 pF/ft @1 kHz, Nominal		
4) Characteristic Impedance	72 Ω		
5) Inductance	0.19 μH/ft, Nominal		
6) Conductor DCR	26 Ω/1000ft @20°C, Nominal		
7) OA Shield DCR	15.9 Ω/1000ft @20°C, Nominal		

#### Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	12 x 10.5 x 5 Continuous length	
b) 500 FT	12 x 5.94 x 5 Continuous length	
c) 100 FT	6.5 x 4 x 2.5 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	
Notes:		
a) Flammability - Passes IEC 60332-1		
b) Acid Gas Generation - Passes IEC 60754-1 and 60754-2		
c) Smoke Emission - Passes IEC 61034-2		

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

To Whom It May Concern:

Alpha Wire Part Number: 5474L

5474L, RoHS-Compliant Commencing With 3/1/2009 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	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 4/27/2024

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