

Customer Specification

PART NO. 6419

Construction

					Dia	ameters (In)		
1) Component 1 4 X 1 PAIR								
a) Conductor		22 (7/30) AWG Tinned Copper			0.0	0.030		
b) Insulation		0.013" Wall, Nom. PVC			0.0	0.056		
(1) Print		ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED						
(2) Color Cod	e	Alpha Wire Color C	ode BR					
Pair	Cole	or	Pair	Color		Pair	Color	
1	BLA	CK#1-RED#1	3	BLACK#3-RED#3				
2	BLA	CK#2-RED#2	4	BLACK#4-RED#4				
c) Pair 2/Cond Cabled Tog		jether						
(1) Twists:		8.0 Twists/foot (approx.)						
2) Cable Assembly		4 Components Cabled						
a) Twists:		3.7 Twists/foot (min)						
b) Orientation:		Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			LAYER			
c) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.						
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.						
a) Foil Direction		Foil Facing In						
b) Drain Wire		24 (7/32) AWG Tinned Copper						
4) Jacket		0.043" Wall, Nom.,PVC			0.3	0.315 (0.330 Max.)		
a) Color(s) SLATE		SLATE						
b) Print		ALPHA WIRE-* P/N 6419 4PR 22 AWG SHIELDED 105C (UL) TYPE PLTC SUN RES OR TYPE CM OR C(UL) 60C TYPE CMG FT4 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]						

Applicable Specifications

1) UL	СМ	105°C	
	PLTC	105°C	
	SUN RES		
2) CSA International	C(UL) TYPE CMG	60°C	
	FT4		
3) CE:	EU Low Voltage Directive 2014/35/EU		

Environmental

1) CE: EU Directive 2011/65/E	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 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.
3) California Proposition 65:	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.

Properties

Physical & Mechanical Properties			
1) Temperature Range	-20 to 105°C		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	48 Lbs, Maximum		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	300 V _{RMS}		
2) Mutual Capacitance	31 pF/ft @1 kHz, Nominal		
3) Ground Capacitance	56 pF/ft @1 kHz, Nominal		
4) Characteristic Impedance	69 Ω		
5) Inductance	0.19 μH/ft, Nominal		
6) Conductor DCR	16.6 Ω/1000ft @20°C, Nominal		
7) OA Shield DCR	15.9 Ω/1000ft @20°C, Nominal	15.9 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	18 x 9 x 8 Continuous length	
b) 500 FT	12 x 10.5 x 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: 6419

6419, RoHS-Compliant Commencing With 8/1/2005 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 5/5/2024

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