

Customer Specification

PART NO. 5419

Construction

					Diameters (In)
1) Component 1	9 X 1 COND				
a) Conductor	20 (10/30) AWG Tinned Copper				0.037
b) Insulation	0.0325" Wall, Nom. PVC				0.102
(1) Color Code	Alpha Wire Color Code E				
Cond	Color	Cond	Color	Cond	Color
1	BLACK	4	ORANGE	7	BLUE
2	BROWN	5	YELLOW	8	VIOLET
3	RED	6	GREEN	9	SLATE
2) Cable Assembly	9 Components Cabled				
a) Twists:	2.2 Twists/foot (min)				
b) Orientation:	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER				
c) Core Wrap	Nonwoven Polyester Tape, 20% Overlap, Min.				
3) Jacket	0.063" Wall, Nom.,PVC				0.503 (0.529 Max.)
a) Color(s)	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White				
b) Ripcord	1 End 810 Denier Nylon				
c) Print	ALPHA WIRE-* P/N 5419 9C 20 AWG XTRAGUARD(R) 1 (UL) MTW 600V OR AWM 2501 105C 600V OR AWM 20811 105C 600V VW-1 OR CRU AWM I/II A/B 105C 600V FT4 CE ROHS SUNLIGHT RESISTANT OIL RESISTANT (SEQ FOOTAGE) * = Factory Code				

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 1015	105°C / 600 V _{RMS}
	MTW	90°C Dry / 60°C Wet / 600 V _{RMS}
b) Overall	MTW	90°C Dry / 60°C Wet / 600 V _{RMS}
	AWM/STYLE 20811	105°C / 600 V _{RMS}
	AWM/STYLE 2501	105°C / 600 V _{RMS}
	VW-1	
2) CSA International		
a) Component 1	TEW	105°C / 600 V _{RMS}
b) Overall	C(RU) AWM I/II A/B	105°C / 600 V _{RMS}
	FT4	
3) IEC	EN 60332-1 Flame Behavior	
	EN 60332-2 Flame Behavior	
4) Other	Sunlight Resistant	
	Oil Resistant	
5) 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.
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	-30 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	71 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	600 V _{RMS}
2) Capacitance	20.9 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.24 µH/ft, Nominal
4) Conductor DCR	11.5 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 500 FT	18 x 14.25 x 8 Continuous length
c) 100 FT	18 x 9 x 8 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>
Notes:	
a) Sunlight Resistant Jacket (720hr test).	
b) Oil Resistant Jacket (7d @ 60C).	

www.alphawire.com

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5419

5419, 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

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

Maximum Control Value

0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/7/2024

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