

# Customer Specification PART NO. 5419

### Construction

				Diameters (In)		
1) Component 1		9 X 1 COND				
a) Conductor		20 (10/30) AWG TC		0.037	0.037	
b) Insulation		0.0325" Wall, Nom. PVC		0.102	0.102	
(1) Color Code		Alpha Wire Co	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	9 Components Cabled			
a) Twists:		2.7 Twists/foot (min)				
b) Core Wrap		Nonwoven Pol	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Jacket		0.063" Wall, Nom.,PVC		0.503 (0.529 N	0.503 (0.529 Max.)	
a) Color(s)		Slate, Black, Y	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White			
b) Ripcord		1 End 810 Denier Nylon				
c) Print		XTRAGUARD( LLXXXXXX CS VOLTS FT4 CE * = Factory Cod	ALPHA WIRE-* P/N 5419 9C 20 AWG XTRAGUARD(R) 1 (UL) MTW 600V OR AWM 2501 VW-1 LLXXXXX CSA AWM I/II A/B 105C 600 VOLTS FT4 CE ROHS (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 1015	105°C / 600 V <sub>RMS</sub>
	мтw	90°C Dry / 60°C Wet / 600 V <sub>RMS</sub>
b) Overall	MTW	90°C Dry / 60°C Wet / 600 V <sub>RMS</sub>
	AWM/STYLE 2501	105°C / 600 V <sub>RMS</sub>
	VW-1	
2) CSA International		
a) Component 1	TEW	105°C / 600 V <sub>RMS</sub>
b) Overall	AWM I/II A/B	105°C / 600 V <sub>RMS</sub>
	FT4	
3) CE:	EU Low Voltage Directive 2006/95/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 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.
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 REACH SVHC Declaration.
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

#### **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 <sub>RMS</sub>	
2) Capacitance	23.5 pf/ft @1 kHz, Nominal Conductor to Conductor	
3) Inductance	0.24 µH/ft, Nominal	
4) Conductor DCR	11.6 Ω/1000ft @20°C, Nominal	

#### Other

24 x 14 x 12 Continuous length	
20 x 11 x 8 Continuous length	
16 x 11 x 8 Continuous length	
[Spool dimensions may vary slightly]	
•	16 x 11 x 8 Continuous length

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

To Whom It May Concern:

Alpha Wire Part Number: 5419

5419, RoHS-Compliant Commencing With 8/1/2005 Production

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. 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 11364-2006.

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 Doog PDE	0.1% by woight (1000 ppm)	

Including Deca-BDE The information provided in this docume 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 Company:

Dave Watson, Director of Engineering & QA

4/24/2013