

Customer Specification

PART NO. 5429/25

Construction

						Diameters (In)	
1) Component 1						25 X 1 COND	
a) Conductor						18 (16/30) AWG Tinned Copper	0.047
b) Insulation						0.032" Wall, Nom. PVC	0.111
(1) Colo	or Code					Alpha Wire Color Code E	
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	10	WHITE	19	WHITE/SLAT		
2	BROWN	11	WHITE/BLA	20	WHITE/BLA		
3	RED	12	WHITE/BRC	21	WHITE/BLA		
4	ORANGE	13	WHITE/REE	22	WHITE/BLA		
5	YELLOW	14	WHITE/OR	23	WHITE/BLA		
6	GREEN	15	WHITE/YEL	24	WHITE/BLA		
7	BLUE	16	WHITE/GRI	25	WHITE/BLA		
8	VIOLET	17	WHITE/BLL				
9	SLATE	18	WHITE/VIC				
2) Cable Assembly						25 Components Cabled	
a) Twis	ts:					1.2 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) Jack	et					0.063" Wall, Nom.,PVC	0.796 (0.834 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 5429/25 25C 18 AWG XTRAGUARD(R) 1 (UL) MTW 600V OR AWM 2501 105C 600V OR AWM 21896 105C 600V SUN RES 60C OIL VW-1 OR CRU AWM I/II A/B 105C 600V FT4 CE ROHS (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 21896	105°C / 600 V _{RMS}	
	SUN RES		
	60C OIL		
	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) 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	314 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	600 V _{RMS}			
2) Capacitance	23.3 pF/ft @1 kHz, Nominal Conductor to Conductor			
3) Inductance	0.22 μH/ft, Nominal			
	7.1 Ω/1000ft @20°C, Nominal			

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	36 x 14 x 12 Continuous length	
b) 500 FT	30 x 14 x 12 Continuous length	
c) 100 FT	24 x 14 x 12 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	

www.alphawire.com

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💋 AlphaWire

EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5429/25

5429/25, RoHS-Compliant Commencing With 01/08/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. T the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitio **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control c

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)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the d 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 c Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and reg Authorized Signatory for the Alpha Wire:

Q AI to

Dave Watson, Director of Engineering & QA 01/04/2025

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