

Customer Specification

PART NO. 5430/25

Construction

			_			Diamete	ers (In)
1) Component 1			25 X 1 COND				
a) Conductor			18 (16/30) AWG Tinned Copper			0.047	
b) Insulation			0.032" W	/all, Nom. PVC		0.111	
(1) Color Coc	de		Alpha W	'ire Color Code E			
Cond	Color	Cond		Color	Cond		Color
1	BLACK	10		WHITE	19		WHITE/SLATE
2	BROWN	11		WHITE/BLACK	20		WHITE/BLACK/BROWN
3	RED	12		WHITE/BROWN	21		WHITE/BLACK/RED
4	ORANGE	13		WHITE/RED	22		WHITE/BLACK/ORANGE
5	YELLOW	14		WHITE/ORANGE	23		WHITE/BLACK/YELLOW
6	GREEN	15		WHITE/YELLOW	24		WHITE/BLACK/GREEN
7	BLUE	16		WHITE/GREEN	25		WHITE/BLACK/BLUE
8	VIOLET	17		WHITE/BLUE			
9	SLATE	18		WHITE/VIOLET		_	
2) Cable Assembly			25 Components Cabled				
a) Twists:			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) Shield:			Alum/Mylar Tape, 20% Overlap, Min.				
a) Foil Direction			Foil Facing In				
b) Drain Wire			18 (16/30) AWG Tinned Copper				
4) Jacket			0.063" Wall, Nom.,PVC			0.800 (0.838 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 5430/25 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/E	U(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	327 Lbs, Maximum		
4) Sunlight Resistance	Yes		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	600 V _{RMS}		
2) Capacitance	32 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Ground Capacitance	58 pF/ft @1 kHz, Nominal		
4) Inductance	0.22 μH/ft, Nominal		
5) Conductor DCR	7.1 Ω/1000ft @20°C, Nominal		
6) OA Shield DCR	4.7 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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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5430/25

5430/25, 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 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 5/4/2024

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