

Request a Sample

# Customer Specification PART NO. 5430/2

#### Construction

				Diameters (In)		
1) Component 1		2 X 1 COND	2 X 1 COND			
a) Conductor		18 (16/30) AWG T	18 (16/30) AWG TC		0.047	
b) Insulation		0.032" Wall, Nom.	0.032" Wall, Nom. PVC		0.111	
(1) Color Code		Alpha Wire Color (	Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	2	BROWN			
2) Cable Assembly		2 Components Ca	2 Components Cabled			
a) Twists:		4.8 Twists/foot (mi	4.8 Twists/foot (min)			
b) Core Wrap		Nonwoven Polyes	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		Alum/Mylar Tape,	Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In	Foil Facing In			
b) Drain Wire		18 (16/30) AWG T	18 (16/30) AWG TC			
4) Jacket		0.063" Wall, Nom.	0.063" Wall, Nom.,PVC		0.356 (0.374 Max.)	
a) Color(s)		Slate, Black, Yello	Slate, Black, Yellow, Orange, Blue, Green, Red,		Vhite	
b) Ripcord		1 End 810 Denier	1 End 810 Denier Nylon			
c) Print		XTRAGUARD(R) 1 600V OR AWM 21: VW-1 LLXXXXX FT4 CE ROHS (SE * = Factory Code	ALPHA WIRE-* P/N 5430/2 2C 18 AWG XTRAGUARD(R) 1 (UL) MTW 600V OR AWM 2501 105C 600V OR AWM 21896 105C 600V SUN RES 60C OIL VW-1 LLXXXXXX CSA AWM I/II A/B 105C 600V 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>
	MTW	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 21896	105°C / 600 V <sub>RMS</sub>
	SUN RES	
	60C OIL	
	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) IEC	EN 60332-1 Flame Behavior	
	EN 60332-2 Flame Behavior	
4) 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**

Toportios					
Physical & Mechanical Properties					
1) Temperature Range	-30 to 105°C				
2) Bend Radius	10X Cable Diameter				
3) Pull Tension	38 Lbs, Maximum				
4) Sunlight Resistance	Yes				
Electrical Properties	(For Engineering purposes only)				
1) Voltage Rating	600 V <sub>RMS</sub>				
2) Capacitance	39 pf/ft @1 kHz, Nominal Conductor to Conductor				
3) Ground Capacitance	70 pf/ft @1 kHz, Nominal				
4) Characteristic Impedance	58 Ω				
5) Inductance	0.22 μH/ft, Nominal				
6) Conductor DCR	7.2 Ω/1000ft @20°C, Nominal				
7) OA Shield DCR	6.1 Ω/1000ft @20°C, Nominal				

#### Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	18 x 12 x 8 Continuous length
b) 500 FT	16 x 11 x 8 Continuous length
c) 100 FT	12 x 10 x 5 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

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

To Whom It May Concern:

Alpha Wire Part Number: 5430/2

5430/2, 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**. 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.

SubstanceMaximum Control ValueLead0.1% by weight (1000 ppm)Mercury0.1% by weight (1000 ppm)Cadmium0.01% by weight (1000 ppm)Hexavalent Chromium0.1% 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)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

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