

## Customer Specification

### PART NO. 45430/3

### Construction

		Diameters (In)			
1) Component 1	3 X 1 COND				
a) Conductor	18 (16/30) AWG Tinned Copper				0.047
b) Insulation	0.032" Wall, Nom. TPE				0.111
(1) Color Code	Alpha Wire Color Code E				
Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	BROWN	3	RED
2) Cable Assembly	3 Components Cabled				
a) Twists:	3.4 Twists/foot (min)				
b) Orientation:	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER				
c) Core Wrap	Nonwoven Polyester Tape, 25% Overlap, Min.				
3) Shield:	Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction	Foil Facing In				
b) Drain Wire	18 (16/30) AWG Tinned Copper				
4) Jacket	0.055" Wall, Nom., TPE				0.357 (0.375 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 45430/3 3C 18 AWG XTRAGUARD(R) 4 E324185 (UL) TYPE WTTC 90C DRY 1000V OR (UL) TYPE TC 90C DRY 600V SUN RES OR AWM 20328 105C 600V 18 AWG OR CRU AWM I/II A/B 125C 600V FT1 P-07-KA140023-MSHA CE ROHS (SEQ FOOTAGE) * = Factory Code				

### Applicable Specifications

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1) UL	AWM/STYLE 20328	105°C / 600 V <sub>RMS</sub>
	TC	90°C / 600 V <sub>RMS</sub>
	WTTC	90°C / 1000 V <sub>RMS</sub>
	SUN RES	
2) CSA International	C(RU) AWM I/II A/B FT1	125°C / 600 V <sub>RMS</sub>
	SUN RES (Black only)	
3) Other	PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED	
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	-50 to 125°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	50 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	600/1000 V <sub>RMS</sub>
2) Capacitance	17.6 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	32 pF/ft @1 kHz, Nominal
4) Inductance	0.22 µH/ft, Nominal
5) Conductor DCR	7 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	6 Ω/1000ft @20°C, Nominal

## Other

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<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) Bulk(Made-to-order)	
<b>Notes:</b>	
a) Print legend will contain CSA SUN RES on black cables only.	

[www.alphawire.com](http://www.alphawire.com)

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# EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 45430/3

45430/3, RoHS-Compliant Commencing With 1/20/2017 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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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:

Dave Watson, Director of Engineering 4/26/2024

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