

# **Customer Specification**

## **PART NO. 45031**

#### Construction

					Diameters (In	)
1) Component 1	1 X 1 PAIR	1 X 1 PAIR				
a) Conductor 18 (16/30) AWG Tinned Co		nned Copper	ppper		0.047	
b) Insulation	0.016" Wall, Nom.	0.016" Wall, Nom. TPE			0.079	
(1) Color Code	Alpha Wire Color C	ode B				
Pair	Color	Pair	Color	Pair		Color
1	WHITE-BLACK					
c) Cabling	2 COND Cabled					
(1) Twists:	5.3 Twists/foot (mir	5.3 Twists/foot (min)				
(2) Orientation:	Components to be	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER				
2) Core Wrap	Nonwoven Polyest	Nonwoven Polyester Tape, 25% Overlap, Min.				
3) Jacket	0.045" Wall, Nom.,	0.045" Wall, Nom.,TPE			0.252 (0.263 Max.)	
a) Color(s)	Slate, Black, Yellow	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White				
b) Ripcord	1 End 810 Denier N	1 End 810 Denier Nylon				
c) Print	XTRAGUARD(R) 4 ( 21916 125C 300 V FT1 P-07-KA14002	ALPHA WIRE-* P/N 45031 1PR 18 AWG XTRAGUARD(R) 4 (UL) TYPE PLTC 105C SUN RES OR AWM 21916 125C 300 V OR CRU AWM I/II A/B 125C 300V FT1 P-07-KA140023-MSHA CE ROHS (SEQ FOOTAGE) * = Factory Code				

#### **Applicable Specifications**

1) UL	AWM/STYLE 21916	125°C / 300 V <sub>RMS</sub>
	PLTC	105°C
	SUN RES	
2) CSA International	C(RU) AWM I/II A/B FT1	125°C / 300 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

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.
)7/2006):
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.
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.
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# Properties

Physical & Mechanical Properties				
1) Temperature Range	-50 to 125°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	25 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V <sub>RMS</sub>			
2) Mutual Capacitance	17 pF/ft @1 kHz, Nominal			
3) Characteristic Impedance	91 Ω			
4) Inductance	0.18 μH/ft, Nominal			
5) Conductor DCR	7 Ω/1000ft @20°C, Nominal			

## Other

Flange x Traverse x Barrel (inches)		
13.5 x 10 x 4 Continuous length		
12 x 5.94 x 5 Continuous length		
10.5 x 5 x 3.5 Continuous length		
[Spool dimensions may vary slightly]		
a) Print legend will contain CSA SUN RES on black cables only.		
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# **EU/UK/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 45031

45031, RoHS-Compliant Commencing With 10/1/2014 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)

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 5/2/2024

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