

## **Customer Specification**

#### **PART NO. 45535**

#### **Construction**

						Diameters (In)	
1) Component 1						5 X 1 COND	
a) Conductor						16 (19/.0117) AWG Tinned Copper	0.059
b) Insulation						0.032" Wall, Nom. TPE	0.123
(1) Color Code						Alpha Wire Color Code E	
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	3	RED	5	YELLOW	1	
2	BROWN	4	ORANGE			1	
2) Cable	e Assembly		1			5 Components Cabled	
a) Twist	ts:					2.4 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:						A/P/A Tape, 20% Overlap, Min.	
a) Drain Wire						16 (19/.0117) AWG Tinned Copper	
b) Braid						Tinned Copper,70% Coverage, Nom.	
4) Jacket						0.055" Wall, Nom.,TPE	0.476 (0.498 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 45535 5C 16 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 16 AWG OR CRU AWM I/II A/B 125C 600V FT1 P-07-KA140023-MSHA CE ROHS (SEQ FOOTAGE) * = Factory Code	

## **Applicable Specifications**

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	129 Lbs, Maximum		
4) Sunlight Resistance	Yes		
<b>Electrical Properties</b>	(For Engineering purposes only)		
1) Voltage Rating	600/1000 V <sub>RMS</sub>		
2) Capacitance	19.8 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Ground Capacitance	36 pF/ft @1 kHz, Nominal		
4) Inductance	0.2 μH/ft, Nominal		
5) Conductor DCR	4.4 Ω/1000ft @20°C, Nominal		
6) OA Shield DCR	1.7 Ω/1000ft @20°C, Nominal		

#### Other

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

#### www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

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Tel: 1-800-52 ALPHA

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

To Whom It May Concern:

Alpha Wire Part Number: 45535

45535, RoHS-Compliant Commencing With 20/01/2017 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 diguide 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:

Dave Watson, Director of Engineering & QA 31/03/2025

Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000