

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Request a Sample

# Customer Specification PART NO. 45523

# Construction

				Diameters (In)		
1) Component 1		3 X 1 COND	3 X 1 COND			
a) Conductor		18 (16/30) AWG	18 (16/30) AWG Tinned Copper		0.047	
b) Insulation		0.032" Wall, Nor	0.032" Wall, Nom. TPE		0.111	
(1) Color Code		Alpha Wire Colo	Ipha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	2	BROWN	3	RED	
2) Cable Assembly		3 Components C	Cabled			
a) Twists:		4.4 Twists/foot (	min)			
b) Orientation:			Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap		Nonwoven Polye	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		A/P/A Tape, 25%	A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		18 (16/30) AWG	18 (16/30) AWG Tinned Copper			
b) Braid	Tinned Copper,70% Coverage, Min.					
4) Jacket		0.055" Wall, Nor	0.055" Wall, Nom.,TPE		0.381 (0.399 Max.)	
a) Color(s)		Slate, Black, Yel	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White		Vhite	
b) Ripcord		1 End 810 Denie	1 End 810 Denier Nylon			
c) Print		XTRAGUARD(R) 1000V OR (UL) 1 AWM 20328 105 125C 600V FT1 CE ROHS (SEQ	ALPHA WIRE-* P/N 45523 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

1) UL	AWM/STYLE 20328	105°C / 600 V <sub>RMS</sub>
	тс	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/EC	

### 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:	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement 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	56 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	2.31 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.		

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

To Whom It May Concern:

Alpha Wire Part Number: 45523

45523, RoHS-Compliant Commencing With 1/20/2017 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 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) 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.

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)
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 & QA Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000 5/27/2020