

Customer Specification

PART NO. 45537

Construction

						Diameters	(ln)
1) Component 1 7 X 1 COND							
a) Conductor		16 (19/.0117) AWG Tinned Copper				0.059	
		0.032" Wall, N	Nom. TPE			0.123	
(1) Color Code Alp		Alpha Wire Co	Alpha Wire Color Code E				
Cond	Color		Cond	Color	Cond		Color
1	BLACI	<	4	ORANGE	7		BLUE
2	BROW	٧N	5	YELLOW			
3	RED		6	GREEN			
2) Cable Assembly	/	7 Component	s Cabled				
a) Twists: 2.2 Twists/foo		2.2 Twists/foc	ot (min)				
b) Orientation: Components		Components	to be arranged from INSIDE LAYER to OUTSIDE LAYER				
c) Core Wrap Nonwoven Po		yester Tape, 20% Overlap, Min.					
3) Shield: A/P/A Tape, 2		0% Overlap, Min.					
a) Drain Wire 16 (19/.0117)		AWG Tinned Copper					
b) Braid Tinned C		Tinned Coppe	d Copper,70% Coverage, Nom.				
4) Jacket		0.055" Wall, Nom.,TPE				0.514 (0.537	Max.)
a) Color(s) Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White							
b) Ripcord 1 End 810 Denier Nylon							
ALPHA WIRE-* P/N 4553 XTRAGUARD(R) 4 E3241 1000V OR (UL) TYPE TC 9 C) Print AWM 20328 105C 600V 125C 600V FT1 P-07-KA CE ROHS (SEQ FOOTAGE * = Factory Code		R) 4 E324185 (UL) TYPE TC 90C DI 05C 600V 16 AW 1 P-07-KA14002;) FOOTAGE)	.) TYPE WTTC 90C DRY RY 600V SUN RES OR VG OR CRU AWM I/II A/B				

Applicable Specifications

1) UL	AWM/STYLE 20328	105°C / 600 V _{RMS}
	TC	90°C / 600 V _{RMS}
	WTTC	90°C / 1000 V _{RMS}
	SUN RES	
2) CSA International	C(RU) AWM I/II A/B FT1	125°C / 600 V _{RMS}
	SUN RES (Black only)	
3) Other	PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED	
4) CE:	CE: EU Low Voltage Directive 2014/35/EU	

Environmental

., 22. 23 2231142 2011/03/2	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 190)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.
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	170 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	600/1000 V _{RMS}	
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	1.72 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

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 45537

45537, 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	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)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/7/2024

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