

Customer Specification

PART NO. 45168

Construction

						Diameters (I	n)
1) Component 1 8 X 1 COND							
·		18 (16/30) AW	G Tinned Copp	er		0.047	
		0.016" Wall, No	om. TPE			0.079	
(1) Color Code		Alpha Wire Co	Alpha Wire Color Code D				
Cond	Color		Cond	Color	Cond	C	Color
1	BLACK	<u> </u>	4	GREEN	7	В	ROWN
2	RED		5	ORANGE	8	Y	ELLOW
3	WHITE		6	BLUE			
2) Cable Assembly		8 Components	Cabled				
a) Twists: 3.2 Twists/foot							
b) Orientation: Compo		Components to	mponents to be arranged from INSIDE LAYER to OUTSIDE LAYER				
c) Core Wrap Nonwoven F		Nonwoven Pol	lyester Tape, 20% Overlap, Min.				
3) Shield: A/P/A		A/P/A Tape, 20	P/A Tape, 20% Overlap, Min.				
a) Drain Wire		18 (16/30) AWG Tinned Copper					
b) Braid		Tinned Copper,70% Coverage, Nom.					
4) Jacket		0.055" Wall, Nom.,TPE				0.406 (0.423 Max.)	
a) Color(s) Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White							
b) Ripcord 1 End		1 End 810 Den	End 810 Denier Nylon				
c) Print ALPHA WIRE-* P/N 45168 8C 18 AWG XTRAGUARD(R) 4 (UL) TYPE PLTC 105C SUN RES OR AWM 20237/21918 125C 300 V OR CRU AWM I/II A/B 125C 300 V FT1 P-07-KA140023-MSHA CE ROHS (SEQ FOOTAGE) * = Factory Code			WM				

Applicable Specifications

1) UL	AWM/STYLE 20237	125°C / 300 V _{RMS}
	PLTC	105°C
	AWM/STYLE 21918	125°C / 300 V _{RMS}
	SUN RES	
2) CSA International	C(RU) AWM I/II A/B FT1	125°C / 300 V _{RMS}
	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 190	07/2006):	
	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 mo information.	

Properties

Physical & Mechanical Properties		
1) Temperature Range	-50 to 125°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	118 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Capacitance	26 pF/ft @1 kHz, Nominal Conductor to Conductor	
3) Ground Capacitance	47 pF/ft @1 kHz, Nominal	
4) Inductance	0.18 μH/ft, Nominal	
5) Conductor DCR	7 Ω/1000ft @20°C, Nominal	
	hield DCR 2.27 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: 45168

45168, 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)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 4/28/2024

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