

Customer Specification

PART NO. 45463

Construction

					Diameters (I	n)
1) Component 1	3 X 1 COND					
a) Conductor	20 (7/28) AWG	Tinned Copper			0.038	
b) Insulation	0.016" Wall, No	om. TPE			0.070	
(1) Color Code	Alpha Wire Col	Alpha Wire Color Code D				
Cond	Color	Cond	Color	Cond		Color
1	BLACK	2	RED	3		WHITE
2) Cable Assembly	3 Components	Cabled	<u> </u>	·		
a) Twists:	5.3 Twists/foot	5.3 Twists/foot (min)				
b) Orientation:	Components to	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER				
c) Core Wrap	Nonwoven Poly	Nonwoven Polyester Tape, 25% Overlap, Min.				
3) Shield:	Alum/Mylar Ta	Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction	Foil Facing In	Foil Facing In				
b) Drain Wire	20 (7/28) AWG	20 (7/28) AWG Tinned Copper				
4) Jacket	0.045" Wall, No	0.045" Wall, Nom.,TPE 0.249 (0.260 M			Max.)	
a) Color(s)	Slate, Black, Ye	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White				
b) Ripcord	1 End 810 Deni	ier Nylon				
c) Print	XTRAGUARD(R 20237/21918 1 CRU AWM I/II	25C 300 V OR A/B 125C 300 V FT1 3-MSHA CE ROHS	105C SUN RES OR AWM	1		

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	Voltage Directive 2014/35/EU	

Environmental

	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 Exemption 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	35 Lbs, Maximum		
4) Sunlight Resistance	Yes		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	300 V _{RMS}		
2) Capacitance	22.6 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Ground Capacitance	41 pF/ft @1 kHz, Nominal		
4) Inductance	0.19 μH/ft, Nominal		
5) Conductor DCR	10.2 Ω/1000ft @20°C, Nominal		
	8.2 Ω/1000ft @20°C, Nominal		

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	13.5 x 10 x 4 Continuous length
b) 500 FT	12 x 5.94 x 5 Continuous length
c) 100 FT	10.5 x 5 x 3.5 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]
Notes:	
a) Print legend will contain CSA SUN RES on	black cables only.
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www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 45463

45463, 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 "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 5/5/2024

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374 Tel: 1-908-925-8000