

Customer Specification

PART NO. 45199/20

Construction

					Diameters (In)	
1) Component 1		20 X 1 CC	20 X 1 COND			
a) Conductor		22 (7/30)	22 (7/30) AWG Tinned Copper		0.030	
b) Insulation		0.016" Wa	0.016" Wall, Nom. TPE		0.062	
(1) Color C	ode	Alpha Wi	Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	8	VIOLET	15	WHITE/YELLOW	
2	BROWN	9	SLATE	16	WHITE/GREEN	
3	RED	10	WHITE	17	WHITE/BLUE	
4	ORANGE	11	WHITE/BLACK	18	WHITE/VIOLET	
5	YELLOW	12	WHITE/BROWN	19	WHITE/SLATE	
6	GREEN	13	WHITE/RED	20	WHITE/BLACK/BROWN	
7	BLUE	14	WHITE/ORANGE			
2) Cable A	ssembly	20 Comp	20 Components Cabled			
a) Twists:		2.5 Twists	2.5 Twists/foot (min)			
b) Orientation:		Compone OUTSIDE	ents to be arranged from INS LAYER			
c) Core Wrap		Nonwove	n Polyester Tape, 20% Overla			
3) Shield:		Alum/My	lar Tape, 20% Overlap, Min.			
a) Foil Direction		Foil Facin	g In			
b) Drain Wire		22 (7/30)	AWG Tinned Copper			
4) Jacket		0.055" Wa	0.055" Wall, Nom.,TPE		0.445 (0.466 Max.)	
a) Color(s)		Slate, Blad	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White			
b) Ripcord		1 End 810) Denier Nylon			
c) Print		XTRAGUA 20237/21 CRU AWM P-07-KA1 (SEQ FOC	ALPHA WIRE-* P/N 45199/20 20C 22 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			

PLTC	105°C
AWM/STYLE 21918	125°C / 300 V _{RMS}
SUN RES	
C(RU) AWM I/II A/B FT1	125°C / 300 V _{RMS}
SUN RES (Black only)	
PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED	
EU Low Voltage Directive 2014/35/EU	
	SUN RES C(RU) AWM I/II A/B FT1 SUN RES (Black only) PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED

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 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.		
This product may contain substances known to the State of California to cause Cance 3) California Proposition 65: Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha V information.			

Properties

Physical & Mechanical Properties					
1) Temperature Range	-50 to 125°C				
2) Bend Radius	10X Cable Diameter				
3) Pull Tension	115 Lbs, Maximum				
4) Sunlight Resistance	Yes				
Electrical Properties	(For Engineering purposes only)				
1) Voltage Rating	300 V _{RMS}				
2) Capacitance	20.2 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	16.4 Ω/1000ft @20°C, Nominal				
6) OA Shield DCR	10.4 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/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 45199/20

45199/20, 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)	

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 5/5/2024

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