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Customer Specification

PART NO. 45120/20

Construction

					Dia	meters (In)
1) Compone	ent 1	20 X 1 CC	20 X 1 COND			
a) Conductor		24 (7/32)	24 (7/32) AWG Tinned Copper		0.02	24
b) Insulation		0.016" W	0.016" Wall, Nom. TPE		0.05	56
(1) Color Co	de	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 Assembly		20 Comp	20 Components Cabled			
a) Twists:		2.8 Twists	2.8 Twists/foot (min)			
b) Orientation:			Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap		Nonwove	Nonwoven Polyester Tape, 20% Overlap, Min.			
3) Shield:		A/P/A Ta	A/P/A Tape, 20% Overlap, Min.			
a) Drain Wire		24 (7/32)	24 (7/32) AWG Tinned Copper			
b) Braid		Tinned Co	Tinned Copper,70% Coverage, Nom.			
4) Jacket		0.042" W	0.042" Wall, Nom.,TPE			11 (0.430 Max.)
a) Color(s)		Slate, Bla	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White			
b) Ripcord		1 End 810	1 End 810 Denier Nylon			
c) Print		XTRAGUA RES OR C P-07-KA1 (SEQ FOC	ALPHA WIRE-* P/N 45120/20 XTRAGUARD(R) 4 RU AWM 20237/21918 125C 300V SUN RES OR CRU AWM I/II A/B 125C 300 VOLTS FT1 P-07-KA140023-MSHA CE ROHS (SEQ FOOTAGE) * = Factory Code			

Applicable Specifications

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1) UL	AWM/STYLE 20237	125°C / 300 V _{RMS}
	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/E	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	80 Lbs, Maximum		
4) Sunlight Resistance	Yes		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	300 V _{RMS}		
2) Capacitance	18.1 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Ground Capacitance	33 pF/ft @1 kHz, Nominal		
4) Inductance	0.22 μH/ft, Nominal		
5) Conductor DCR	26 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.		

www.alphawire.com

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 45120/20

45120/20, 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 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 5/8/2024

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