



# Customer Specification PART NO. 5120/50C

Construction

		Diameters (In)	
I) Component 1	50 X 1 COND		
a) Conductor	24 (7/32) AWG TC	0.024	
b) Insulation (1) Color Code	0.010" Wall, Nom. PVC, Semi Rigid  Alpha Wire Color Code E	0.044	
(1) Color Code	Alphia Wife Color Code L		

	Color	Cond	Color	Cond	ا ما
1 E			00101	Oona	Color
l	BLACK	18	WHITE/VIOLET	35	WHITE/RED/ORANGE
2 E	BROWN	19	WHITE/SLATE	36	WHITE/RED/YELLOW
3 F	RED	20	WHITE/BLACK/BROW N	37	WHITE/RED/GREEN
4 (	ORANGE	21	WHITE/BLACK/RED	38	WHITE/RED/BLUE
5	YELLOW	22	WHITE/BLACK/ORAN GE	39	WHITE/RED/VIOLET
6	GREEN	23	WHITE/BLACK/YELL OW	40	WHITE/RED/SLATE
7 E	BLUE	24	WHITE/BLACK/GREE N	41	WHITE/ORANGE/YEL LOW
8	VIOLET	25	WHITE/BLACK/BLUE	42	WHITE/ORANGE/GR EEN
9	SLATE	26	WHITE/BLACK/VIOLE T	43	WHITE/ORANGE/BLU E
10 V	WHITE	27	WHITE/BLACK/SLATE	44	WHITE/ORANGE/VIO LET
11 V	WHITE/BLACK	28	WHITE/BROWN/RED	45	WHITE/ORANGE/SLA TE
12 V	WHITE/BROWN	29	WHITE/BROWN/ORA NGE	46	WHITE/YELLOW/GRE EN
13 V	WHITE/RED	30	WHITE/BROWN/YELL OW	47	WHITE/YELLOW/BLU E
14 V	WHITE/ORANGE	31	WHITE/BROWN/GRE EN	48	WHITE/YELLOW/VIOL ET
15 V	WHITE/YELLOW	32	WHITE/BROWN/BLUE	49	WHITE/YELLOW/SLA TE
16 V	WHITE/GREEN	33	WHITE/BROWN/VIOL ET	50	WHITE/GREEN/BLUE
17 V	WHITE/BLUE	34	WHITE/BROWN/SLAT E		
2) Cable Assembly		50 Components Cabled	<u> </u>		
a) Twists:		2.8 Twists/foot (min)			
b) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		A/P/A Tape, 25% Overlap, Min.			

a) Drain Wire	24 (7/32) AWG TC	
b) Braid	TC,70% Coverage, Min.	
4) Jacket	0.032" Wall, Nom.,PVC	0.457 (0.482 Max.)
a) Color(s)	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White	
b) Ripcord	1 End 810 Denier Nylon	
c) Print	ALPHA WIRE-* P/N 5120/50C 50C 24 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 1 2464 VW-1 LLXXXXXX CSA 105C TYPE CM CE ROHS (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings	G FT4

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 10002	105°C / 300 V <sub>RMS</sub>
b) Overall	AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>
	СМ	105°C
	VW-1	
2) CSA International	СМС	105°C
	FT4	
3) CE:	EU Low Voltage Directive 2006/95/	/EC

## Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.
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. For up-to-date information, please see Alpha's REACH SVHC Declaration.
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

## Properties

1) Temperature Range	-30 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	186 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V <sub>RMS</sub>
2) Capacitance	32 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	58 pf/ft @1 kHz, Nominal
4) Inductance	0.19 μH/ft, Nominal
5) Conductor DCR	26 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	2.7 Ω/1000ft @20°C, Nominal

#### Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 500 FT	18 x 12 x 8 Continuous length
c) 100 FT	12 x 10 x 5 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

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### **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 5120/50C

5120/50C, RoHS-Compliant Commencing With 8/1/2005 Production

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. 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 11364-2006.

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-BDF	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

4/23/2013