

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification PART NO. 5120/50C

Construction

				Diameters (In)	
1) Component 1		50 X 1 COND			
a) Conductor		24 (7/32) AWG TC		0.024	
b) Insulation		0.010" Wall, Nom. PVC, Semi Rigid		0.044	
(1) Color Code		Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color
1	BLACK	18	WHITE/VIOLET	35	WHITE/RED/ORANG
2	BROWN	19	WHITE/SLATE	36	WHITE/RED/YELLO
3	RED	20	WHITE/BLACK/BROW N	37	WHITE/RED/GREEI
4	ORANGE	21	WHITE/BLACK/RED	38	WHITE/RED/BLUE
5	YELLOW	22	WHITE/BLACK/ORAN GE	39	WHITE/RED/VIOLE
6	GREEN	23	WHITE/BLACK/YELL OW	40	WHITE/RED/SLATE
7	BLUE	24	WHITE/BLACK/GREE N	41	WHITE/ORANGE/Y LOW
8	VIOLET	25	WHITE/BLACK/BLUE	42	WHITE/ORANGE/G EEN
9	SLATE	26	WHITE/BLACK/VIOLE T	43	WHITE/ORANGE/B E
10	WHITE	27	WHITE/BLACK/SLATE	44	WHITE/ORANGE/V LET
11	WHITE/BLACK	28	WHITE/BROWN/RED	45	WHITE/ORANGE/S TE
12	WHITE/BROWN	29	WHITE/BROWN/ORA NGE	46	WHITE/YELLOW/G EN
13	WHITE/RED	30	WHITE/BROWN/YELL OW	47	WHITE/YELLOW/BL E
14	WHITE/ORANGE	31	WHITE/BROWN/GRE EN	48	WHITE/YELLOW/VI ET
15	WHITE/YELLOW	32	WHITE/BROWN/BLUE	49	WHITE/YELLOW/SI TE
16	WHITE/GREEN	33	WHITE/BROWN/VIOL ET	50	WHITE/GREEN/BLU
17	WHITE/BLUE	34	WHITE/BROWN/SLAT E		
2) Cable Asseml	bly	50 Components	50 Components Cabled		
a) Twists:		2.8 Twists/foot (min)			
b) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		A/P/A Tape, 25%	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 M	lax.)
a) Color(s)		Slate, Black, Yellow, Orange, Blue, Green, Red,		Sand Beige, W	hite
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 105C OR AWM 2464 VW-1 LLXXXXXX CSA 105C TYPE CMG FT4 CE ROHS (SEQ FOOTAGE) * = Factory Code
	[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 10002	105°C / 300 V _{RMS}
b) Overall		80°C / 300 V _{RMS}
	СМ	105°C
	VW-1	
2) CSA International	СМG	105°C
	FT4	
3) CE:	LVD 73/23/EEC Amendment 93/68/EEC	

Environmental

1) EU Directive 2002/95/EC(RoHS):		
	All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.	
2) REACH Regulation (EC 1907/2006):		
	This product does not contain any of the substances listed on the 13 January 2010 European Union's REACH Substance of Very High Concern (SVHC) candidate list in excess of 0.1% mass of the item.	
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.	

Properties

Physical &Mechanical 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 _{RMS}	
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 /1000ft @20°C, Nominal	
6) OA Shield DCR	2.7 /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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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:5120/50C

5120/50C, RoHS-Compliant Commencing With8/1/2005Production

This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, 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 these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.**

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB) Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)
Including Deca-BDE	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

1/21/2011