



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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

[Request a Sample](#)

Customer Specification

PART NO. 5110/70C

Construction

		Diameters (In)
1) Component 1	70 X 1 COND	
a) Conductor	22 (7/30) AWG Tinned Copper	0.030
b) Insulation	0.010" Wall, Nom. PVC, Semi Rigid	0.050
(1) Color Code	Alpha Wire Color Code E	

Cond	Color	Cond	Color	Cond	Color
1	BLACK	25	WHITE/BLACK/BLUE	49	WHITE/YELLOW/SLATE
2	BROWN	26	WHITE/BLACK/VIOLET	50	WHITE/GREEN/BLUE
3	RED	27	WHITE/BLACK/SLATE	51	WHITE/GREEN/VIOLET
4	ORANGE	28	WHITE/BROWN/RED	52	WHITE/GREEN/SLATE
5	YELLOW	29	WHITE/BROWN/ORANGE	53	WHITE/BLUE/VIOLET
6	GREEN	30	WHITE/BROWN/YELLOW	54	WHITE/BLUE/SLATE
7	BLUE	31	WHITE/BROWN/GREEN	55	WHITE/VIOLET/SLATE
8	VIOLET	32	WHITE/BROWN/BLUE	56	WHITE/BLACK/BROWN/RED
9	SLATE	33	WHITE/BROWN/VIOLET	57	WHITE/BLACK/BROWN/ORANGE
10	WHITE	34	WHITE/BROWN/SLATE	58	WHITE/BLACK/BROWN/YELLOW
11	WHITE/BLACK	35	WHITE/RED/ORANGE	59	WHITE/BLACK/BROWN/GREEN
12	WHITE/BROWN	36	WHITE/RED/YELLOW	60	WHITE/BLACK/BROWN/BLUE
13	WHITE/RED	37	WHITE/RED/GREEN	61	WHITE/BLACK/BROWN/VIOLET
14	WHITE/ORANGE	38	WHITE/RED/BLUE	62	WHITE/BLACK/BROWN/SLATE
15	WHITE/YELLOW	39	WHITE/RED/VIOLET	63	WHITE/BLACK/RED/YELLOW
16	WHITE/GREEN	40	WHITE/RED/SLATE	64	WHITE/BLACK/RED/GREEN
17	WHITE/BLUE	41	WHITE/ORANGE/YELLOW	65	WHITE/BLACK/RED/BLUE

18	WHITE/VIOLET	42	WHITE/ORANGE/GR EEN	66	WHITE/BLACK/RED/V IOLET
19	WHITE/SLATE	43	WHITE/ORANGE/BLU E	67	WHITE/BLACK/RED/S LATE
20	WHITE/BLACK/BROW N	44	WHITE/ORANGE/VIO LET	68	WHITE/BLACK/ORAN GE/YELLOW
21	WHITE/BLACK/RED	45	WHITE/ORANGE/SLA TE	69	WHITE/BLACK/ORAN GE/GREEN
22	WHITE/BLACK/ORAN GE	46	WHITE/YELLOW/GRE EN	70	WHITE/BLACK/ORAN GE/BLUE
23	WHITE/BLACK/YELL OW	47	WHITE/YELLOW/BLU E		
24	WHITE/BLACK/GREE N	48	WHITE/YELLOW/VIO LET		
2) Cable Assembly		70 Components Cabled			
a) Twists:		2.1 Twists/foot (min)			
b) Orientation:		Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		22 (7/30) AWG Tinned Copper			
b) Braid		Tinned Copper, 70% Coverage, Min.			
4) Jacket		0.053" Wall, Nom., PVC		0.630 (0.662 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 5110/70C 70C 22 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C OR AWM 2464 80C 300V OR AWM 21894 105C 300V SUN RES 60C OIL 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	AWM/STYLE 21894	105°C / 300 V _{RMS}
	SUN RES	
	60C OIL	
	AWM/STYLE 2464	80°C / 300 V _{RMS}
	CM	105°C
	VW-1	
2) CSA International	CMG	105°C
	FT4	
3) IEC	EN 60332-1 Flame Behavior	
	EN 60332-2 Flame Behavior	
4) CE:	EU Low Voltage Directive 2014/35/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 and the amending Directive 2015/863/EU of 4 June 2015 . 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:	
	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-35 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	399 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Capacitance	36 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	65 pF/ft @1 kHz, Nominal
4) Inductance	0.18 µH/ft, Nominal
5) Conductor DCR	16.7 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	1.86 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	30 x 14 x 12 Continuous length
b) 500 FT	24 x 14 x 12 Continuous length
c) 100 FT	16 x 11 x 8 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

www.alphawire.com

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

Although Alpha Wire (“Alpha”) makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an “AS IS” basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

ALPHA WIRE - CONFIDENTIAL AND PROPRIETARY

Notice to persons receiving this document and/or technical information. This document is confidential and is the exclusive property of ALPHA WIRE, and is merely on loan and subject to recall by ALPHA WIRE at any time. By taking possession of this document, the recipient acknowledges and agrees that this document cannot be used in any manner adverse to the interests of ALPHA WIRE, and that no portion of this document may be copied or otherwise reproduced without the prior written consent of ALPHA WIRE. In the case of conflicting contractual provisions, this notice shall govern the status of this document. ©2013 ALPHA WIRE - all rights reserved.



EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5110/70C

5110/70C , RoHS-Compliant Commencing With 8/1/2005 Production

Note: all colors and put-ups

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 (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) 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.

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 & QA

5/3/2017

Alpha Wire

711 Lidgerwood Ave.

Elizabeth, NJ 07207

Tel: 1-908-925-8000