

Customer Specification PART NO. 5110/70C

Construction

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

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Cond	Color	Cond	Color	Cond	Color
1	BLACK	25	WHITE/BLACK/BLUE	49	WHITE/YELLOW/SLA TE
2	BROWN	26	WHITE/BLACK/VIOLE T	50	WHITE/GREEN/BLUE
3	RED	27	WHITE/BLACK/SLATE	51	WHITE/GREEN/VIOL ET
4	ORANGE	28	WHITE/BROWN/RED	52	WHITE/GREEN/SLAT E
5	YELLOW	29	WHITE/BROWN/ORA NGE	53	WHITE/BLUE/VIOLET
6	GREEN	30	WHITE/BROWN/YELL OW	54	WHITE/BLUE/SLATE
7	BLUE	31	WHITE/BROWN/GRE EN	55	WHITE/VIOLET/SLAT
8	VIOLET	32	WHITE/BROWN/BLUE	56	WHITE/BLACK/BROW N/RED
9	SLATE	33	WHITE/BROWN/VIOL ET	57	WHITE/BLACK/BROW N/ORANGE
10	WHITE	34	WHITE/BROWN/SLAT	58	WHITE/BLACK/BROW N/YELLOW
11	WHITE/BLACK	35	WHITE/RED/ORANGE	59	WHITE/BLACK/BROW N/GREEN
12	WHITE/BROWN	36	WHITE/RED/YELLOW	60	WHITE/BLACK/BROW N/BLUE
13	WHITE/RED	37	WHITE/RED/GREEN	61	WHITE/BLACK/BROW N/VIOLET
14	WHITE/ORANGE	38	WHITE/RED/BLUE	62	WHITE/BLACK/BROW N/SLATE
15	WHITE/YELLOW	39	WHITE/RED/VIOLET	63	WHITE/BLACK/RED/Y ELLOW
16	WHITE/GREEN	40	WHITE/RED/SLATE	64	WHITE/BLACK/RED/G REEN
17	WHITE/BLUE	41	WHITE/ORANGE/YEL LOW	65	WHITE/BLACK/RED/B LUE
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	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	48	WHITE/YELLOW/VIOL ET		
2) Cable Assembly	2) Cable Assembly				

a) Twists:	2.1 Twists/foot (min)	
b) Core Wrap	Nonwoven Polyester Tape, 25% Overlap, Min.	
3) Shield:	A/P/A Tape, 25% Overlap, Min.	
a) Drain Wire	22 (7/30) AWG TC	
b) Braid	TC,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 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 2464	80°C / 300 V _{RMS}	
	СМ	105°C	
	VW-1		
2) CSA International	СМС	105°C	
	FT4		
3) CE:	LVD 73/23/EEC Amendment 93/68	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	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 /1000ft @20°C, Nominal	
6) OA Shield DCR	1.86 /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)	
	[Spool dimensions may vary slightly]

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:5110/70C

5110/70C, 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