

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. 5100/70C

Construction

		Diameters (In)
1) Component 1	70 X 1 COND	
a) Conductor	24 (7/32) AWG Tinned Copper	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	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 E
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 E	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 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/VIOL ET		
2) Cable Assembly		70 Components Cabled			
a) Twists:		2.4 Twists/foot (min)			
b) Orientation:	Components to be arranged from INSIDE		c) Core Wrap		
Nonwoven Polyester Ta	lonwoven Polyester Tape, 25% Overlap, Min.		3) Shield:		
Alum/Mylar Tape, 25% Overlap, Min.			a) Foil Direction		
Foil Facing In			b) Drain Wire		
24 (7/32) AWG Tinned Copper				4) Jacket	
0.032" Wall, Nom.,PVC		0.505 (0.534 Max.)		a) Color(s)	
Slate, Black, Yellow, Orange, Blue, Green, Red,		Sand Beige, White	nd Beige, White b) Ripcord		
1 End 810 Denier Nylon				c) Print	

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}
	СМ	105°C
	VW-1	
2) CSA International	СМG	105°C
	FT4	
3) IEC	EN 60332-1 Flame Behavior	
	EN 60332-2 Flame Behavior	
4) 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

Physical & Mechanical Properties	
1) Temperature Range	-35 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	250 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 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	11.6 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	20 x 11 x 8 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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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5100/70C

5100/70C, 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)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000 2/9/2017