

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

Customer Specification PART NO. 5100/60C

Construction

				Diameters (In)	
1) Component 1		60 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	Alpha Wire Color Code E		
Cond	Color	Cond	Color	Cond	Color
1	BLACK	21	WHITE/BLACK/R ED	41	WHITE/ORANGE/ YELLOW
2	BROWN	22	WHITE/BLACK/O RANGE	42	WHITE/ORANGE/ GREEN
3	RED	23	WHITE/BLACK/Y ELLOW	43	WHITE/ORANGE/ BLUE
4	ORANGE	24	WHITE/BLACK/G REEN	44	WHITE/ORANGE/ VIOLET
5	YELLOW	25	WHITE/BLACK/B LUE	45	WHITE/ORANGE/ SLATE
6	GREEN	26	WHITE/BLACK/VI OLET	46	WHITE/YELLOW/ GREEN
7	BLUE	27	WHITE/BLACK/S LATE	47	WHITE/YELLOW/ BLUE
7 8 9	VIOLET	28	WHITE/BROWN/ RED	48	WHITE/YELLOW/ VIOLET
9	SLATE	29		49	

			WHITE/BROWN/ ORANGE		WHITE/YELLOW/ SLATE
10	WHITE	30	WHITE/BROWN/ YELLOW	50	WHITE/GREEN/B LUE
11	WHITE/BLACK	31	WHITE/BROWN/ GREEN	51	WHITE/GREEN/V IOLET
12	WHITE/BROWN	32	WHITE/BROWN/ BLUE	52	WHITE/GREEN/S LATE
13	WHITE/RED	33	WHITE/BROWN/ VIOLET	53	WHITE/BLUE/VIO LET
14	WHITE/ORANGE	34	WHITE/BROWN/ SLATE	54	WHITE/BLUE/SL ATE
15	WHITE/YELLOW	35	WHITE/RED/ORA NGE	55	WHITE/VIOLET/S LATE
16	WHITE/GREEN	36	WHITE/RED/YEL LOW	56	WHITE/BLACK/B ROWN/RED
17	WHITE/BLUE	37	WHITE/RED/GRE EN	57	WHITE/BLACK/B ROWN/ORANGE
18	WHITE/VIOLET	38	WHITE/RED/BLU E	58	WHITE/BLACK/B ROWN/YELLOW
19	WHITE/SLATE	39	WHITE/RED/VIOL ET	59	WHITE/BLACK/B ROWN/GREEN
20	WHITE/BLACK/B ROWN	40	WHITE/RED/SLA TE	60	WHITE/BLACK/B ROWN/BLUE
2) Cable Assembly		60 Components Cabled			
a) Twists:		2.5 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:		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	0.468 (0.495 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 5100/60C 60C 24 XTRAGUARD(R) 1 SHIELDED (UL) T 2464 80C 300V OR AWM 21894 105C OIL VW-1 LLXXXXXX CSA 105C T CE ROHS (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA manufacture.]	YPE CM 105C OR AWM 300V SUN RES 60C YPE CMG FT4	

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 2014/35/EC	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS	2):
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011and 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.
II 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	215 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	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: 5100/60C

5100/60C, 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 Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000 8/25/2020

Mouser Electronics

Authorized Distributor

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Alpha Wire: <u>5100/60C SL001</u> <u>5100/60C SL005</u>