



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 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	21	WHITE/BLACK/RED	41	WHITE/ORANGE/YELLOW
2	BROWN	22	WHITE/BLACK/ORANGE	42	WHITE/ORANGE/GREEN
3	RED	23	WHITE/BLACK/YELLOW	43	WHITE/ORANGE/BLUE
4	ORANGE	24	WHITE/BLACK/GREEN	44	WHITE/ORANGE/VIOLET
5	YELLOW	25	WHITE/BLACK/BLUE	45	WHITE/ORANGE/SLATE
6	GREEN	26	WHITE/BLACK/VIOLET	46	WHITE/YELLOW/GREEN
7	BLUE	27	WHITE/BLACK/SLATE	47	WHITE/YELLOW/BLUE
8	VIOLET	28	WHITE/BROWN/RED	48	WHITE/YELLOW/VIOLET
9	SLATE	29	WHITE/BROWN/ORANGE	49	WHITE/YELLOW/SLATE
10	WHITE	30	WHITE/BROWN/YELLOW	50	WHITE/GREEN/BLUE
11	WHITE/BLACK	31	WHITE/BROWN/GREEN	51	WHITE/GREEN/VIOLET
12	WHITE/BROWN	32	WHITE/BROWN/BLUE	52	WHITE/GREEN/SLATE
13	WHITE/RED	33	WHITE/BROWN/VIOLET	53	WHITE/BLUE/VIOLET
14	WHITE/ORANGE	34	WHITE/BROWN/SLATE	54	WHITE/BLUE/SLATE
15	WHITE/YELLOW	35	WHITE/RED/ORANGE	55	WHITE/VIOLET/SLATE
16	WHITE/GREEN	36	WHITE/RED/YELLOW	56	WHITE/BLACK/BROWN/RED
17	WHITE/BLUE	37	WHITE/RED/GREEN	57	WHITE/BLACK/BROWN/ORANGE
18	WHITE/VIOLET	38	WHITE/RED/BLUE	58	WHITE/BLACK/BROWN/YELLOW
19	WHITE/SLATE	39	WHITE/RED/VIOLET	59	WHITE/BLACK/BROWN/GREEN
20	WHITE/BLACK/BROWN	40	WHITE/RED/SLATE	60	WHITE/BLACK/BROWN/BLUE
2) Cable Assembly		60 Components Cabled			
a) Twists:		2.5 Twists/foot (min)			
b) 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 TC	
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 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 <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>	

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}
	CM	105°C
	VW-1	
2) CSA International	CMG	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	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 /1000ft @20°C, Nominal
6) OA Shield DCR	11.6 /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)	
	<i>[Spool dimensions may vary slightly]</i>

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:5100/60C

5100/60C , 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)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE) 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