



# **Customer Specification**

**PART NO. 5160/60C** 

Construction

ductor llation or Code					60 X 1 COND	
lation or Code					100 X T COND	
or Code					20 (7/28) AWG Tinned Copper	0.038
1					0.016" Wall, Nom. PVC	0.070
Color	I <del>  '</del>				Alpha Wire Color Code D	
COIOI	Cond	Color	Cond	Color		
BLACK	21	WHITE/BR	41	WHITE/GRI		
RED	22	WHITE/OR		WHITE/GRI		
WHITE	23	WHITE/SL/	43	WHITE/GRI		
GREEN	24	WHITE/VIC	44	WHITE/GRI		
ORANGE	25	WHITE/BL/	45	WHITE/GRI		
BLUE	26	WHITE/BL/	46	WHITE/BLL		
BROWN	27	WHITE/BL/	47	WHITE/BLL		
YELLOW	28	WHITE/BL/	48	WHITE/BLL		
VIOLET	29	WHITE/BL	49	WHITE/BLL		
SLATE	30	WHITE/BL	50	WHITE/BLL		
PINK	31	WHITE/BL	51	WHITE/BLL		
TAN	32	WHITE/BL	52	WHITE/BR(		
RED/GREE	33	WHITE/BL/	53	WHITE/BR(		
RED/YELL(	34	WHITE/RE	54	WHITE/BR(		
RED/BLAC	35	WHITE/RE	55	WHITE/BR(		
WHITE/BL	36	WHITE/RE	56	WHITE/BR(		
WHITE/RE	37	WHITE/RE	57	WHITE/BR(		
WHITE/GR	38	WHITE/RE	58	WHITE/VIC		
WHITE/YEI	39	WHITE/RE	59	WHITE/VIC		
WHITE/BLI	40	WHITE/GR	60	WHITE/VIC		
2) Cable Assembly					60 Components Cabled	
its:					1.3 Twists/foot (min)	
b) Orientation:					Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
					Nonwoven Polyester Tape, 20% Overlap, Min.	
3) Shield:					A/P/A Tape, 20% Overlap, Min.	
n Wire					20 (7/28) AWG Tinned Copper	
d					Tinned Copper,70% Coverage, Nom.	
et					0.053" Wall, Nom.,PVC	0.774 (0.806 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 5160/60C 60C 20 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C SUN RES OR AWM 2464 80C 300V OR AWM 2517 105C 300V VW-1 OR C(UL) TYPE CMG 105C FT4 CE ROHS OIL RESISTANT (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]	
	WHITE GREEN ORANGE BLUE BROWN YELLOW VIOLET SLATE PINK TAN RED/GREE RED/YELLC RED/BLAC WHITE/REI WHITE/REI WHITE/YEI WHITE/YEI WHITE/YEI WHITE/YEI WHITE/YEI WHITE/YEI ORANGE RED/GREE RED/YELLC RED/BLAC WHITE/REI WHITE/YEI WHITE/YEI ORANGE RED/GREE RED/YELLC RED/BLAC WHITE/REI WHITE/YEI WHITE/YEI ORANGE RED/GREE RED/YELLC RED/BLAC WHITE/REI WHITE/YEI RED/GREE RED/YELLC RED/BLAC WHITE/YEI RED/GREE RED/YELLC RED/BLAC RED/BLAC RED/BLAC RED/BLAC RED/GREE RED/YELLC RED/GREE RED/GREE RED/YELLC RED/GREE RED/GREE RED/YELLC RED/GREE	WHITE 23  GREEN 24  ORANGE 25  BLUE 26  BROWN 27  YELLOW 28  VIOLET 29  SLATE 30  PINK 31  TAN 32  RED/GREE 33  RED/YELLC 34  RED/BLAC 35  WHITE/RE 37  WHITE/RE 37  WHITE/RE 39  WHITE/YEI 39  WHITE/YEI 40  RE Assembly tts:  Intation:  Wrap  Id:  In Wire  In Wir	WHITE 23 WHITE/SL/ GREEN 24 WHITE/VIC ORANGE 25 WHITE/BL/ BLUE 26 WHITE/BL/ BROWN 27 WHITE/BL/ YELLOW 28 WHITE/BL/ VIOLET 29 WHITE/BL/ SLATE 30 WHITE/BL/ TAN 32 WHITE/BL/ RED/GREE 33 WHITE/BL/ RED/GREE 33 WHITE/BL/ RED/BLAC 35 WHITE/REI WHITE/BL 36 WHITE/REI WHITE/REI 37 WHITE/REI WHITE/REI 37 WHITE/REI WHITE/GR 38 WHITE/REI WHITE/YEI 39 WHITE/REI WHITE/BL 40 WHITE/GR  The Assembly Tests  That at ion:  The Wrap  Id: The Wire Cord  The Cord  T	WHITE         23         WHITE/SL/ 43           GREEN         24         WHITE/VIC 44           ORANGE         25         WHITE/BL 45           BLUE         26         WHITE/BL 46           BROWN         27         WHITE/BL 48           VIOLET         29         WHITE/BL 48           VIOLET         29         WHITE/BL 50           PINK         31         WHITE/BL 51           TAN         32         WHITE/BL 51           TAN         32         WHITE/BL 53           RED/GREE         33         WHITE/BL 53           RED/YELLC         34         WHITE/RE 54           RED/BLAC         35         WHITE/RE 55           WHITE/BL 36         WHITE/RE 56           WHITE/BL 36         WHITE/RE 57           WHITE/BL 39         WHITE/RE 58           WHITE/BL 40         WHITE/GR 60           Ite Assembly         Its:           Intation:         WHITE/BL 40           Wrap         Id:           Intwice         Id           Ite Wire         Ite Wire	WHITE         23         WHITE/SL/L         43         WHITE/GRI           GREEN         24         WHITE/VIC         44         WHITE/GRI           ORANGE         25         WHITE/BL         45         WHITE/GRI           BLUE         26         WHITE/BL         46         WHITE/BLL           BROWN         27         WHITE/BL         47         WHITE/BLL           YELLOW         28         WHITE/BL         47         WHITE/BLL           VIOLET         29         WHITE/BL         49         WHITE/BLL           SLATE         30         WHITE/BL         50         WHITE/BLL           SLATE         30         WHITE/BL         50         WHITE/BLL           SLATE         30         WHITE/BL         51         WHITE/BLL           SLATE         30         WHITE/BLL         50         WHITE/BLL           SLATE         30         WHITE/BLL         51         WHITE/BLL           SLATE         30         WHITE/BLL         52         WHITE/BLL           RED/GREE         33         WHITE/BLL         53         WHITE/BL           RED/YELLC         34         WHITE/BL         56         WHITE/BL      <	WHITE   23

## **Applicable Specifications**

1) UL		
a) Component 1	AWM/STYLE 1569	105°C / 300 V <sub>RMS</sub>
b) Overall	AWM/STYLE 2517	105°C / 300 V <sub>RMS</sub>
	SUN RES	
	AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>
	СМ	105°C
	VW-1	
2) CSA International	C(UL) TYPE CMG	105°C
	FT4	
3) IEC	EN 60332-1 Flame Behavior	
	EN 60332-2 Flame Behavior	
4) Other	Oil Resistant	
5) CE:	EU Low Voltage Directive 2014/35/EU	

### **Environmental**

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):	
	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.
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.
3) California Proposition 65:	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.

## **Properties**

Physical & Mechanical Properties		
1) Temperature Range	-30 to 105℃	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	547 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>	
2) Capacitance	39 pF/ft @1 kHz, Nominal Conductor to Conductor	
3) Ground Capacitance	70 pF/ft @1 kHz, Nominal	
4) Inductance	0.19 μH/ft, Nominal	
5) Conductor DCR	10.3 Ω/1000ft @20°C, Nominal	
6) OA Shield DCR	1.24 Ω/1000ft @20°C, Nominal	
of on since ben	1.2-12/10001t @20 C, Normal	

#### **Other**

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	36 x 14 x 12 Continuous length	
b) 500 FT	30 x 14 x 12 Continuous length	
c) 100 FT	24 x 14 x 12 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	
Notes:		
a) Oil Resistant Jacket (7d @ 60C).		
a) On Nesistant Jacket (10 @ 00C).		

#### www.alphawire.com

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### **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 5160/60C

5160/60C, RoHS-Compliant Commencing With 01/08/2005 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 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. T the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitio **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control c

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 diguide 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 content information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA 18/09/2025

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