

Customer Specification

PART NO. 5160/60C

Construction

						Diameters (In)	
1) Component 1						60 X 1 COND	
a) Conductor						20 (7/28) AWG Tinned Copper	0.038
b) Insulation						0.016" Wall, Nom. PVC	0.070
(1) Color Code						Alpha Wire Color Code D	
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	21	WHITE/BR	41	WHITE/GRI		
2	RED	22	WHITE/OR	42	WHITE/GRI		
3	WHITE	23	WHITE/SL	43	WHITE/GRI		
4	GREEN	24	WHITE/VIC	44	WHITE/GRI		
5	ORANGE	25	WHITE/BL	45	WHITE/GRI		
6	BLUE	26	WHITE/BL	46	WHITE/BLL		
7	BROWN	27	WHITE/BL	47	WHITE/BLL		
8	YELLOW	28	WHITE/BL	48	WHITE/BLL		
9	VIOLET	29	WHITE/BL	49	WHITE/BLL		
10	SLATE	30	WHITE/BL	50	WHITE/BLL		
11	PINK	31	WHITE/BL	51	WHITE/BLL		
12	TAN	32	WHITE/BL	52	WHITE/BRC		
13	RED/GREE	33	WHITE/BL	53	WHITE/BRC		
14	RED/YELL	34	WHITE/RE	54	WHITE/BRC		
15	RED/BLAC	35	WHITE/RE	55	WHITE/BRC		
16	WHITE/BL	36	WHITE/RE	56	WHITE/BRC		
17	WHITE/RE	37	WHITE/RE	57	WHITE/BRC		
18	WHITE/GR	38	WHITE/RE	58	WHITE/VIC		
19	WHITE/YE	39	WHITE/RE	59	WHITE/VIC		
20	WHITE/BL	40	WHITE/GR	60	WHITE/VIC		
2) Cable Assembly						60 Components Cabled	
a) Twists:						1.3 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap						Nonwoven Polyester Tape, 20% Overlap, Min.	
3) Shield:						A/P/A Tape, 20% Overlap, Min.	
a) Drain Wire						20 (7/28) AWG Tinned Copper	
b) Braid						Tinned Copper,70% Coverage, Nom.	
4) Jacket						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.]	

Applicable Specifications

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Physical & Mechanical Properties	
1) Temperature Range	-30 to 105°C
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 _{RMS}
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

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)	
	<i>[Spool dimensions may vary slightly]</i>
Notes:	
a) Oil Resistant Jacket (7d @ 60C).	

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5160/60C

5160/60C, RoHS-Compliant Commencing With 8/1/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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). This product also complies with UK - RoHS. 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. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

Substance

Lead
Mercury
Cadmium
Hexavalent Chromium
Polybrominated Biphenyls (PBB)
Polybrominated Diphenyl Ethers (PBDE) ,
Including Deca-BDE
Bis(2-ethylhexyl) phthalate (DEHP)
Butyl benzyl phthalate (BBP)
Dibutyl phthalate (DBP)
Diisobutyl phthalate (DIBP)

Maximum Control Value

0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/31/2024

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