

Customer Specification PART NO. 5160/60C

Construction

				Diameters (I	n)	
1) Component 1		60 X 1 CON	D			
a) Conductor		20 (7/28) AV	20 (7/28) AWG Tinned Copper		0.038	
b) Insulation		0.016" Wall,	0.016" Wall, Nom. PVC		0.070	
(1) Color Code		Alpha Wire (Alpha Wire Color Code D			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	21	WHITE/BROWN	41	WHITE/GREEN/R ED	
2	RED	22	WHITE/ORANGE	42	WHITE/GREEN/G REEN	
3	WHITE	23	WHITE/SLATE	43	WHITE/GREEN/B LUE	
4	GREEN	24	WHITE/VIOLET	44	WHITE/GREEN/B ROWN	
5	ORANGE	25	WHITE/BLACK/R ED	45	WHITE/GREEN/V IOLET	
6	BLUE	26	WHITE/BLACK/G REEN	46	WHITE/BLUE/BL ACK	
7	BROWN	27	WHITE/BLACK/Y ELLOW	47	WHITE/BLUE/RE D	
8	YELLOW	28	WHITE/BLACK/B LUE	48	WHITE/BLUE/GR EEN	
9	VIOLET	29		49		

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			WHITE/BLACK/B ROWN		WHITE/BLUE/BL UE
10	SLATE	30	WHITE/BLACK/O RANGE	50	WHITE/BLUE/BR OWN
11	PINK	31	WHITE/BLACK/S LATE	51	WHITE/BLUE/VIO LET
12	TAN	32	WHITE/BLACK/VI OLET	52	WHITE/BROWN/ BLACK
13	RED/GREEN	33	WHITE/BLACK/B LACK	53	WHITE/BROWN/ RED
14	RED/YELLOW	34	WHITE/RED/BLA CK	54	WHITE/BROWN/ GREEN
15	RED/BLACK	35	WHITE/RED/RED	55	WHITE/BROWN/ BLUE
16	WHITE/BLACK	36	WHITE/RED/GRE EN	56	WHITE/BROWN/ BROWN
17	WHITE/RED	37	WHITE/RED/BLU E	57	WHITE/BROWN/ VIOLET
18	WHITE/GREEN	38	WHITE/RED/BRO WN	58	WHITE/VIOLET/R ED
19	WHITE/YELLOW	39	WHITE/RED/VIOL ET	59	WHITE/VIOLET/G REEN
20	WHITE/BLUE	40	WHITE/GREEN/B LACK	60	WHITE/VIOLET/B LUE
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 Tir	nned 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 XTRAGUARD(R) 1 SHIELDED (UL) TO OR AWM 2464 80C 300V OR AWM 25 VW-1 OR C(UL) TYPE CMG 105C FTA OIL RESISTANT (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA manufacture.]	YPE CM 105C SUN RES 517 105C 300V 4 CE ROHS	

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 1569	105°C / 300 V _{RMS}
b) Overall	AWM/STYLE 2517	105°C / 300 V _{RMS}
	SUN RES	
	AWM/STYLE 2464	80°C / 300 V _{RMS}
	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°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)	
	[Spool dimensions may vary slightly]
Notes:	
a) Oil Resistant Jacket (7d @ 60C).	

Tel: 1-800-52 ALPHA (25742)

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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 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	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

10/30/2023

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