



Customer Specification

PART NO. 5100/60C

Construction		

1) Compo			_			Diameters (In)
1) Component 1		60 X 1	60 X 1 COND			
a) Conductor		24 (7/3	2) AWG Tinned Copper		0.024	
b) Insulation		0.010"	Wall, Nom. PVC, Semi Rigid		0.044	
(1) Color Code		Alpha \	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 A	Assembly		60 Con	nponents Cabled		
a) Twists:			2.1 Twists/foot (min)			
			mponents to be arranged from INSIDE /ER to OUTSIDE LAYER			
c) Core Wrap Nonwo		nwoven Polyester Tape, 20% Overlap, n.				
3) Shield:			Alum/Mylar Tape, 20% Overlap, Min.			
		Foil Fac	Foil Facing In			
		24 (7/32) AWG Tinned Copper				
4) Jacket 0.0		0.032" Wall, Nom.,PVC 0.4		0.468 (0.495 Max.)		
		Slate, B	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White			
		1 End 8	End 810 Denier Nylon			
XTRAG OR AW c) Print VW-1 CE RO * = Fac		PHA WIRE-* P/N 5100/60C 60C 24 AWG RAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C SUN RES R AWM 2464 80C 300V OR AWM 2517 105C 300V N-1 LLXXXXXX CSA 105C TYPE CMG FT4 E ROHS OIL RESISTANT (SEQ FOOTAGE) = Factory Code Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]				

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 10002	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	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/I	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 Exemption are required for RoHS Compliance on this item.
2) REACH Regulation (EC 190)7/2006):
	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.
	information.

Properties

Physical & Mechanical Properties			
1) Temperature Range	-35 to 105℃		
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	31 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Ground Capacitance	56 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 14.25 x 8 Continuous length
c) 100 FT	12 x 5.94 x 5 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]
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: 5100/60C

5100/60C, RoHS-Compliant Commencing With 01/08/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, 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	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 17/05/2024

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