



Request a Sample

# Customer Specification PART NO. 5070/50C

Construction

				Diameters (In)		
1) Component 1		50 X 1 COND		Diameters (III)		
1) Component 1						
a) Conductor			18 (16/30) AWG Tinned Copper		0.047	
b) Insulation (1) Color Code			0.016" Wall, Nom. PVC Alpha Wire Color Code D			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	18	WHITE/GREEN	35	WHITE/RED/RED	
2	RED	19	WHITE/YELLOW	36	WHITE/RED/GREEN	
3	WHITE	20	WHITE/BLUE	37	WHITE/RED/BLUE	
4	GREEN	21	WHITE/BROWN	38	WHITE/RED/BROWN	
5	ORANGE	22	WHITE/ORANGE	39	WHITE/RED/VIOLET	
6	BLUE	23	WHITE/SLATE	40	WHITE/GREEN/BLAC	
7	BROWN	24	WHITE/VIOLET	41	WHITE/GREEN/RED	
8	YELLOW	25	WHITE/BLACK/RED	42	WHITE/GREEN/GREE	
9	VIOLET	26	WHITE/BLACK/GREE N	43	WHITE/GREEN/BLUE	
10	SLATE	27	WHITE/BLACK/YELL OW	44	WHITE/GREEN/BRO WN	
11	PINK	28	WHITE/BLACK/BLUE	45	WHITE/GREEN/VIOL ET	
	TAN	29	WHITE/BLACK/BROW N	46	WHITE/BLUE/BLACK	
13	RED/GREEN	30	WHITE/BLACK/ORAN GE	47	WHITE/BLUE/RED	
14	RED/YELLOW	31	WHITE/BLACK/SLATE	48	WHITE/BLUE/GREEN	
15	RED/BLACK	32	WHITE/BLACK/VIOLE T	49	WHITE/BLUE/BLUE	
16	WHITE/BLACK	33	WHITE/BLACK/BLAC	50	WHITE/BLUE/BROWN	
17	WHITE/RED	34	WHITE/RED/BLACK			
2) Cable Assembly	· · · · · · · · · · · · · · · · · · ·	50 Components	s Cabled			
a) Twists:		1.5 Twists/foot	1.5 Twists/foot (min)			
b) Orientation:			Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap		Nonwoven Poly	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Jacket		0.053" Wall, No	0.053" Wall, Nom.,PVC		0.758 (0.788 Max.)	
a) Color(s)		Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White		nite		

b) Ripcord	1 End 810 Denier Nylon		
	ALPHA WIRE-* P/N 5070/50C 50C 18 AWG XTRAGUARD(R) 1 (UL) TYPE CM 105C OR AWM 2464 80C		
	300V OR AWM 21894 105C 300V SUN RES 60C OIL		
c) Print	VW-1 OR C(UL) TYPE CMG 105C FT4		
	CE ROHS (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 1569	105°C / 300 V <sub>RMS</sub>
b) Overall	AWM/STYLE 21894	105°C / 300 V <sub>RMS</sub>
	SUN RES	
	60C OIL	
	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) CE:	EU Low Voltage Directive 2014/35/EC	

## 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. Consult Alpha Wire's web site for RoHS C of C.	
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. For up-to-date information, please see Alpha's REACH SVHC Declaration.	
3) California Proposition 65:	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.	

## Properties

Physical & Mechanical Properties		
1) Temperature Range	-30 to 105°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	628 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>	
2) Capacitance	30 pF/ft @1 kHz, Nominal Conductor to Conductor	
3) Inductance	0.18 μH/ft, Nominal	
4) Conductor DCR	7.1 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	16 x 11 x 8 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

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

To Whom It May Concern:

Alpha Wire Part Number: 5070/50C

5070/50C, 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) 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.

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 & QA

Alpha Wire

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