



Request a Sample

Customer Specification PART NO. 5470/50C

Construction

				Diameters (In)	
1) Component 1		50 X 1 COND	50 X 1 COND		
a) Conductor		20 (7/28) AWG	20 (7/28) AWG Tinned Copper		
b) Insulation		0.016" Wall, N	om. PVC	0.070	
(1) Color Code		Alpha Wire Co	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 7	BLUE	23	WHITE/SLATE	40	WHITE/GREEN/BLAC K
7	BROWN	24	WHITE/VIOLET	41	WHITE/GREEN/RED
8	YELLOW	25	WHITE/BLACK/F	RED 42	WHITE/GREEN/GREE N
9	VIOLET	26	WHITE/BLACK/G	REE 43	WHITE/GREEN/BLUE
II	SLATE	27	WHITE/BLACK/Y OW	ELL 44	WHITE/GREEN/BRO WN
11	PINK	28	WHITE/BLACK/E	BLUE 45	WHITE/GREEN/VIOL ET
12	TAN	29	WHITE/BLACK/B	ROW 46	WHITE/BLUE/BLACK
12 13 14 15 16	RED/GREEN	30	WHITE/BLACK/O GE	PRAN 47	WHITE/BLUE/RED
14	RED/YELLOW	31	WHITE/BLACK/S	LATE 48	WHITE/BLUE/GREEN
15	RED/BLACK	32	WHITE/BLACK/V	IOLE 49	WHITE/BLUE/BLUE
16	WHITE/BLACK	33	WHITE/BLACK/B	LAC 50	WHITE/BLUE/BROWN
17	WHITE/RED	34	WHITE/RED/BLA	ACK	
2) Cable Assembly	<i>'</i>	50 Componen	ts Cabled		
a) Twists:		1.8 Twists/foot	1.8 Twists/foot (min)		
b) Orientation:			Components to be arranged from INSIDE LAYER to OUTSIDE LAYER		
c) Core Wrap		Nonwoven Pol	Nonwoven Polyester Tape, 25% Overlap, Min.		
3) Shield:		Alum/Mylar Ta	Alum/Mylar Tape, 25% Overlap, Min.		
a) Foil Direction		Foil Facing In	Foil Facing In		

b) Drain Wire	20 (7/28) AWG Tinned Copper	
4) Jacket	0.053" Wall, Nom.,PVC	0.688 (0.717 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 5470/50C 50C 20 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C OR AWM 2464 80C 300V OR AWM 21894 105C 300V SUN RES 60C OIL 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

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1) UL			
a) Component 1	AWM/STYLE 1569	105°C / 300 V _{RMS}	
b) Overall	AWM/STYLE 21894	105°C / 300 V _{RMS}	
	SUN RES		
	60C OIL		
	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) CE:	EU Low Voltage Directive 2014/35/EC	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

Dhysical & Machanical Dranatics	
Physical & Mechanical Properties	T
1) Temperature Range	-30 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	446 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	10.4 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	6.4 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	24 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: 5470/50C

5470/50C, 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.

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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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