

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification PART NO. 5470/50C

Construction

				Diameters (In))	
1) Component 1		50 X 1 COND				
a) Conductor		20 (7/28) AWG) TC	0.038		
b) Insulation		0.016" Wall, No	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	BLUE	23	WHITE/SLATE	40	WHITE/GREEN/BLAC K	
7	BROWN	24	WHITE/VIOLET	41	WHITE/GREEN/RED	
8	YELLOW	25	WHITE/BLACK/RED	42	WHITE/GREEN/GREE N	
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	
12	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 K	50	WHITE/BLUE/BROWN	
17	WHITE/RED	34	WHITE/RED/BLACK			
2) Cable Assembly		50 Component	50 Components Cabled			
a) Twists:		1.8 Twists/foot	1.8 Twists/foot (min)			
b) 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	20 (7/28) AWG TC			
4) Jacket		0.053" Wall, No	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 VW-1 LLXXXXXX CSA 105C TYPE CMG 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 _{RMS}
b) Overall	AWM/STYLE 2464	80°C / 300 V _{RMS}
	СМ	105°C
	VW-1	
2) CSA International	СМG	105°C
	FT4	
3) CE:	EU Low Voltage Directive 2006/95/EC	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS	2):
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. 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 Europear 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:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

Properties

Physical & Mechanical Properties	
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	44 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	79 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

lightly]

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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

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, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. 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 11364-2006.

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 Doca BDE	0.1% by weight (1000 ppm)

Including Deca-BDE

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 Company:

Dave Watson, Director of Engineering & QA

4/24/2013