

### **Customer Specification**

PART NO. 5080/50C

Construction

				Diar	neters (In)	
1) Component 1			50 X 1 COND			
a) Conductor			16 (19/.0117) AWG Tinned Copper		9	
b) Insulation			0.016" Wall, Nom. PVC		0.091	
(1) Color Code			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/BLACK	
7	BROWN	24	WHITE/VIOLET	41	WHITE/GREEN/RED	
8	YELLOW	25	WHITE/BLACK/RED	42	WHITE/GREEN/GREEN	
9	VIOLET	26	WHITE/BLACK/GRE	EN 43	WHITE/GREEN/BLUE	
10	SLATE	27	WHITE/BLACK/YELL	-OW 44	WHITE/GREEN/BROWN	
11	PINK	28	WHITE/BLACK/BLU	E 45	WHITE/GREEN/VIOLET	
12	TAN	29	WHITE/BLACK/BRC	WN 46	WHITE/BLUE/BLACK	
13	RED/GREEN	30	WHITE/BLACK/ORA	NGE 47	WHITE/BLUE/RED	
14	RED/YELLOW	31	WHITE/BLACK/SLA	TE 48	WHITE/BLUE/GREEN	
15	RED/BLACK	32	WHITE/BLACK/VIOI	LET 49	WHITE/BLUE/BLUE	
16	WHITE/BLACK	33	WHITE/BLACK/BLA	СК 50	WHITE/BLUE/BROWN	
17	WHITE/RED	34	WHITE/RED/BLACK			
2) Cable Assembly			50 Components Cabled			
a) Twists:			1.1 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) Jacket			0.083" Wall, Nom.,PVC		7 (0.949 Max.)	
a) Color(s)			Slate, Black, Yellow, Orange, Blue, Green, Red, S		l Beige, White	
b) Ripcord			1 End 810 Denier Nylon			
c) Print			ALPHA WIRE-* P/N 5080/50C 50C 16 AWG XTRAGUARD(R) 1 (UL) TYPE CM 105C SUN RES OR AWM 2464 80C 300V OR AWM 2517 105C 300V VW-1 OR C(UL) TYPE CMG 105C FT4 CE 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 1569	105°C / 300 V <sub>RMS</sub>	
b) Overall	AWM/STYLE 2517	105°C / 300 V <sub>RMS</sub>	
	SUN RES		
	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) 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				
-30 to 105°C				
10X Cable Diameter				
1022 Lbs, Maximum				
Yes				
(For Engineering purposes only)				
300 V <sub>RMS</sub>				
32 pF/ft @1 kHz, Nominal Conductor to Conductor				
0.17 μH/ft, Nominal				
4.4 Ω/1000ft @20°C, Nominal				
	-30 to 105°C   10X Cable Diameter   1022 Lbs, Maximum   Yes   (For Engineering purposes only)   300 V <sub>RMS</sub> 32 pF/ft @1 kHz, Nominal Conductor to Conductor   0.17 μH/ft, Nominal			

Packaging	Flange x Traverse x Barrel (inches)			
a) 1000 FT	48 x 26 x 18 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).				

#### www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

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

To Whom It May Concern:

Alpha Wire Part Number: 5080/50C

5080/50C, RoHS-Compliant Commencing With 8/1/2005 Production

#### Note: all colors and put-ups

This document certifies that the Alpha part number cited above, 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 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 5/7/2024

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374 Tel: 1-908-925-8000