



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

Customer Specification

PART NO. 5080/50C

Construction

				Diameters (In)	
1) Component 1		50 X 1 COND			
a) Conductor		16 (19/.0117) AWG TC		0.059	
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/GREEN	43	WHITE/GREEN/BLUE
10	SLATE	27	WHITE/BLACK/YELLOW	44	WHITE/GREEN/BROWN
11	PINK	28	WHITE/BLACK/BLUE	45	WHITE/GREEN/VIOLET
12	TAN	29	WHITE/BLACK/BROWN	46	WHITE/BLUE/BLACK
13	RED/GREEN	30	WHITE/BLACK/ORANGE	47	WHITE/BLUE/RED
14	RED/YELLOW	31	WHITE/BLACK/SLATE	48	WHITE/BLUE/GREEN
15	RED/BLACK	32	WHITE/BLACK/VIOLET	49	WHITE/BLUE/BLUE
16	WHITE/BLACK	33	WHITE/BLACK/BLACK	50	WHITE/BLUE/BROWN
17	WHITE/RED	34	WHITE/RED/BLACK		
2) Cable Assembly		50 Components Cabled			
a) Twists:		1.3 Twists/foot (min)			
b) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Jacket		0.083" Wall, Nom.,PVC		0.917 (0.949 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 5080/50C 50C 16 AWG XTRAGUARD(R) 1 (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}
	CM	105°C
	VW-1	
2) CSA International	CMG	105°C
	FT4	
3) CE:	LVD 73/23/EEC Amendment 93/68/EEC	

Environmental

1) EU Directive 2002/95/EC(RoHS):	
	All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.
2) REACH Regulation (EC 1907/2006):	
	This product does not contain any of the substances listed on the 13 January 2010 European Union's REACH Substance of Very High Concern (SVHC) candidate list in excess of 0.1% mass of the item.
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	1022 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Capacitance	36 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.17 µH/ft, Nominal
4) Conductor DCR	4.4 /1000ft @20°C, Nominal

Other

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)	
	<i>[Spool dimensions may vary slightly]</i>

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:5080/50C

5080/50C , RoHS-Compliant Commencing With8/1/2005Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, 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 these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% 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)	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:

A handwritten signature in black ink, appearing to read 'Dave Watson'.

Dave Watson, Director of Engineering &QA

1/21/2011