

Customer Specification PART NO. 5080/50C

Construction

				Diameters (In)		
1) Component 1		50 X 1 COND	50 X 1 COND		. ,	
a) Conductor		16 (19/.0117) AW	16 (19/.0117) AWG TC		0.059	
b) Insulation		0.016" Wall, Nom	0.016" Wall, Nom. PVC		0.091	
(1) Color Code		Alpha Wire Color	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	
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 Components C	Cabled			
a) Twists:		1.3 Twists/foot (m	1.3 Twists/foot (min)			
b) Core Wrap		Nonwoven Polyes	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Jacket		0.083" Wall, Nom	0.083" Wall, Nom.,PVC		0.917 (0.949 Max.)	
a) Color(s)		Slate, Black, Yello	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White			
b) Ripcord		1 End 810 Denier	1 End 810 Denier Nylon			
c) Print		XTRAGUARD(R) LLXXXXXX CS ROHS (SEQ FOC * = Factory Code	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.]			

1) UL		
a) Component 1	AWM/STYLE 1569	105°C / 300 V _{RMS}
b) Overall		80°C / 300 V _{RMS}
		105°C
	VW-1	
2) CSA International	СМС	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

1 10001100				
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)	
	[Spool dimensions may vary slightly]

www.alphawire.com

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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) Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)
Including Deca-BDE	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

1/21/2011