

Customer Specification PART NO. 5160/50C

Construction

				Diameters (In)		
1) Component 1		50 X 1 COND	50 X 1 COND		, .	
a) Conductor		20 (7/28) AWG	20 (7/28) AWG TC		0.038	
b) Insulation		0.016" Wall, No	m. PVC	0.070		
(1) Color Code		Alpha Wire Colo	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	
15 16 17	WHITE/BLACK	33	WHITE/BLACK/BLAC K	50	WHITE/BLUE/BROWN	
17	WHITE/RED	34	WHITE/RED/BLACK			
2) Cable Assembly		50 Components	50 Components Cabled			
a) Twists:		1.8 Twists/foot	1.8 Twists/foot (min)			
b) Core Wrap		Nonwoven Poly	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		A/P/A Tape, 25	A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		20 (7/28) AWG	20 (7/28) AWG TC			
b) Braid		TC,70% Covera	TC,70% Coverage, Min.			
4) Jacket		0.053" Wall, No	0.053" Wall, Nom.,PVC		0.718 (0.748 Max.)	
a) Color(s)		Slate, Black, Ye	Slate, Black, Yellow, Orange, Blue, Green, Red,			
b) Ripcord		1 End 810 Deni	1 End 810 Denier Nylon			
c) Print		XTRAGUARD(F 2464 VW-1 L CE ROHS (SEC * = Factory Cod	ALPHA WIRE-* P/N 5160/50C 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	CMG	105°C	
	FT4		
3) CE:	LVD 73/23/EEC Amendment 93/6	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	460 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 /1000ft @20°C, Nominal	
6) OA Shield DCR	1.21 /1000ft @20°C, Nominal	

Other

C 11.01		
Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	36 x 14 x 12 Continuous length	
b) 500 FT	30 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]	

www.alphawire.com

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:5160/50C

5160/50C, 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