

Customer Specification

PART NO. 5390/50C

Construction

						Diameters (In)		
1) Component 1						50 X 1 COND		
a) Conductor						18 (16/30) AWG Tinned Copper		0.047
b) Insulation						0.016" Wall, Nom. PVC		0.079
(1) Color Code						Alpha Wire Color Code D		
Cond	Color	Cond	Color	Cond	Color			
1	BLACK	18	WHITE/GR	35	WHITE/RED			
2	RED	19	WHITE/YEL	36	WHITE/RED			
3	WHITE	20	WHITE/BL	37	WHITE/RED			
4	GREEN	21	WHITE/BR	38	WHITE/RED			
5	ORANGE	22	WHITE/OR	39	WHITE/RED			
6	BLUE	23	WHITE/SL	40	WHITE/GR			
7	BROWN	24	WHITE/VIC	41	WHITE/GR			
8	YELLOW	25	WHITE/BL	42	WHITE/GR			
9	VIOLET	26	WHITE/BL	43	WHITE/GR			
10	SLATE	27	WHITE/BL	44	WHITE/GR			
11	PINK	28	WHITE/BL	45	WHITE/GR			
12	TAN	29	WHITE/BL	46	WHITE/BL			
13	RED/GREE	30	WHITE/BL	47	WHITE/BL			
14	RED/YELL	31	WHITE/BL	48	WHITE/BL			
15	RED/BLAC	32	WHITE/BL	49	WHITE/BL			
16	WHITE/BL	33	WHITE/BL	50	WHITE/BL			
17	WHITE/RE	34	WHITE/RE					
2) Cable Assembly						50 Components Cabled		
a) Twists:						1.3 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) Shield:						Alum/Mylar Tape, 20% Overlap, Min.		
a) Foil Direction						Foil Facing In		
b) Drain Wire						18 (16/30) AWG Tinned Copper		
4) Jacket						0.053" Wall, Nom.,PVC		0.762 (0.792 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 5390/50C 50C 18 AWG XTRAGUARD(R) 1 SHIELDED (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

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Physical & Mechanical Properties	
1) Temperature Range	-30 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	641 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V _{RMS}
2) Capacitance	45 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	81 pF/ft @1 kHz, Nominal
4) Inductance	0.18 µH/ft, Nominal
5) Conductor DCR	7.1 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	4.7 Ω/1000ft @20°C, Nominal

Other

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	18 x 9 x 8 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>
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: 5390/50C

5390/50C, 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 "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

Substance

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)

Maximum Control Value

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 6/10/2024

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