

Customer Specification PART NO. 5390/50C

Construction

				Diameters (In)	
1) Component 1		50 X 1 COND			
a) Conductor		18 (16/30) AWG T	inned 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/GREEN	35	WHITE/RED/RED
2	RED	19	WHITE/YELLOW	36	WHITE/RED/GRE
3	WHITE	20	WHITE/BLUE	37	WHITE/RED/BLU
4	GREEN	21	WHITE/BROWN	38	WHITE/RED/BRO WN
5	ORANGE	22	WHITE/ORANGE	39	WHITE/RED/VIOL ET
6	BLUE	23	WHITE/SLATE	40	WHITE/GREEN/B LACK
7	BROWN	24	WHITE/VIOLET	41	WHITE/GREEN/R ED
8	YELLOW	25	WHITE/BLACK/R ED	42	WHITE/GREEN/G REEN
9	VIOLET	26	WHITE/BLACK/G	43	WHITE/GREEN/B

			REEN		LUE	
10	SLATE	27	WHITE/BLACK/Y ELLOW	44	WHITE/GREEN/B ROWN	
11	PINK	28	WHITE/BLACK/B LUE	45	WHITE/GREEN/V	
12	TAN	29	WHITE/BLACK/B ROWN	46	WHITE/BLUE/BL ACK	
13	RED/GREEN	30	WHITE/BLACK/O RANGE	47	WHITE/BLUE/RE D	
14	RED/YELLOW	31	WHITE/BLACK/S LATE	48	WHITE/BLUE/GR EEN	
15	RED/BLACK	32	WHITE/BLACK/VI OLET	49	WHITE/BLUE/BL UE	
16	WHITE/BLACK	33	WHITE/BLACK/B LACK	50	WHITE/BLUE/BR OWN	
17	WHITE/RED	34	WHITE/RED/BLA			
2) Cable Assembly		50 Components Cabled				
a) Twists:		1.3 Twists/foot (min)				
b) Orientation:		Components to be INSIDE LAYER to	•			
c) Core Wrap		Nonwoven Polyes Overlap, Min.	ter Tape, 20%			
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)				

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Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 1569	105°C / 300 V _{RMS}
b) Overall	AWM/STYLE 2517	105°C / 300 V _{RMS}
	SUN RES	
	AWM/STYLE 2464	80°C / 300 V _{RMS}
	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	
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)	
	[Spool dimensions may vary slightly]
Notes:	
a) Oil Resistant Jacket (7d @ 60C).	

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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 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	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)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering

10/30/2023

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