



# **Customer Specification**

**PART NO. 5390/60C** 

Construction				

						Diameter	s (In)	
1) Compon	ent 1		60 X 1 COND					
a) Conductor			18 (16/3	0) AWG Tinned Copper		0.047		
b) Insulatio	n		0.016" V	/all, Nom. PVC		0.079		
(1) Color Co	ode		Alpha Wire Color Code D					
Cond	Color	Cond	k	Color	Со	nd	Color	
1	BLACK	21		WHITE/BROWN	41		WHITE/GREEN/RED	
2	RED	22		WHITE/ORANGE	42		WHITE/GREEN/GREEN	
3	WHITE	23		WHITE/SLATE	43		WHITE/GREEN/BLUE	
4	GREEN	24		WHITE/VIOLET	44		WHITE/GREEN/BROWN	
5	ORANGE	25		WHITE/BLACK/RED	45		WHITE/GREEN/VIOLET	
6	BLUE	26		WHITE/BLACK/GREEN	46		WHITE/BLUE/BLACK	
7	BROWN	27		WHITE/BLACK/YELLOW	47		WHITE/BLUE/RED	
8	YELLOW	28		WHITE/BLACK/BLUE	48		WHITE/BLUE/GREEN	
9	VIOLET	29		WHITE/BLACK/BROWN	49		WHITE/BLUE/BLUE	
10	SLATE	30		WHITE/BLACK/ORANGE	50		WHITE/BLUE/BROWN	
11	PINK	31		WHITE/BLACK/SLATE	51		WHITE/BLUE/VIOLET	
12	TAN	32		WHITE/BLACK/VIOLET	52		WHITE/BROWN/BLACK	
13	RED/GREEN	33		WHITE/BLACK/BLACK	53		WHITE/BROWN/RED	
14	RED/YELLOW	34		WHITE/RED/BLACK	54		WHITE/BROWN/GREEN	
15	RED/BLACK	35		WHITE/RED/RED	55		WHITE/BROWN/BLUE	
16	WHITE/BLACK	WHITE/BLACK 36		WHITE/RED/GREEN	56		WHITE/BROWN/BROWN	
17	WHITE/RED	37		WHITE/RED/BLUE	57		WHITE/BROWN/VIOLET	
18	WHITE/GREEN 38		WHITE/RED/BROWN	58		WHITE/VIOLET/RED		
19	WHITE/YELLOW	39		WHITE/RED/VIOLET	59		WHITE/VIOLET/GREEN	
20 WHITE/BLUE 40				WHITE/GREEN/BLACK	60		WHITE/VIOLET/BLUE	
2) Cable As	sembly		60 Com	oonents Cabled				
a) Twists:			1.1 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			0.083" Wall, Nom.,PVC 0.885 (0.918 Max.)			18 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 5390/60C 60C 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**

1) UL		
a) Component 1	AWM/STYLE 1569	105°C / 300 V <sub>RMS</sub>
b) Overall	AWM/STYLE 2517	105°C / 300 V <sub>RMS</sub>
	SUN RES	
	AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>
	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 Exemption 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.			
	information.			

# **Properties**

Physical & Mechanical Properties			
1) Temperature Range	-30 to 105°C		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	767 Lbs, Maximum		
4) Sunlight Resistance	Yes		
<b>Electrical Properties</b>	(For Engineering purposes only)		
1) Voltage Rating	300 V <sub>RMS</sub>		
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	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]	
Notes:		
a) Oil Resistant Jacket (7d @ 60C).		

#### www.alphawire.com

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### **EU/UK/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 5390/60C

5390/60C, 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	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 4/28/2024

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