

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Request a Sample

# Customer Specification PART NO. 5199/60C

Construction

		Diameters (In)
1) Component 1	60 X 1 COND	
a) Conductor	22 (7/30) AWG Tinned Copper	0.030
b) Insulation	0.010" Wall, Nom. PVC, Semi Rigid	0.050
(1) Color Code	Alpha Wire Color Code E	

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Cond	Color	Cond	Color	Cond	Color
1	BLACK	21	WHITE/BLACK/RED	41	WHITE/ORANGE/YEL LOW
2	BROWN	22	WHITE/BLACK/ORAN GE	42	WHITE/ORANGE/GR EEN
3	RED	23	WHITE/BLACK/YELL OW	43	WHITE/ORANGE/BLU E
4	ORANGE	24	WHITE/BLACK/GREE N	44	WHITE/ORANGE/VIO LET
5	YELLOW	25	WHITE/BLACK/BLUE	45	WHITE/ORANGE/SLA TE
6	GREEN	26	WHITE/BLACK/VIOLE T	46	WHITE/YELLOW/GRE EN
7	BLUE	27	WHITE/BLACK/SLATE	47	WHITE/YELLOW/BLU E
8	VIOLET	28	WHITE/BROWN/RED	48	WHITE/YELLOW/VIOL ET
9	SLATE	29	WHITE/BROWN/ORA NGE	49	WHITE/YELLOW/SLA TE
10	WHITE	30	WHITE/BROWN/YELL OW	50	WHITE/GREEN/BLUE
11	WHITE/BLACK	31	WHITE/BROWN/GRE EN	51	WHITE/GREEN/VIOL ET
12	WHITE/BROWN	32	WHITE/BROWN/BLUE	52	WHITE/GREEN/SLAT E
13	WHITE/RED	33	WHITE/BROWN/VIOL ET	53	WHITE/BLUE/VIOLET
14	WHITE/ORANGE	34	WHITE/BROWN/SLAT E	54	WHITE/BLUE/SLATE
15	WHITE/YELLOW	35	WHITE/RED/ORANGE	55	WHITE/VIOLET/SLAT E
16	WHITE/GREEN	36	WHITE/RED/YELLOW	56	WHITE/BLACK/BROW N/RED
17	WHITE/BLUE	37	WHITE/RED/GREEN	57	WHITE/BLACK/BROW N/ORANGE

18	WHITE/VIOLET	38	WHITE/RED/BLUE	58	WHITE/BLACK/BROW N/YELLOW
19	WHITE/SLATE	39	WHITE/RED/VIOLET	59	WHITE/BLACK/BROW N/GREEN
20	WHITE/BLACK/BROW N	40	WHITE/RED/SLATE	60	WHITE/BLACK/BROW N/BLUE
2) Cable Assembly		60 Components Cableo	ł		
a) Twists:		2.3 Twists/foot (min)			
b) Orientation:		Components to be arranged from INSIDE LAYER to OUTSIDE LAYER		c) Core Wrap	
Nonwoven Polyester Ta	ape, 25% Overlap, Min.			3) Shield:	
Alum/Mylar Tape, 25%	Overlap, Min.			a) Foil Direction	
Foil Facing In				b) Drain Wire	
22 (7/30) AWG Tinned Copper			4) Jacket		
0.032" Wall, Nom.,PVC 0.522 (0.549 Max.)			a) Color(s)		
Slate, Black, Yellow, Orange, Blue, Green, Red,		, Sand Beige, White		b) Ripcord	
1 End 810 Denier Nylon				c) Print	

## Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 10002	105°C / 300 V <sub>RMS</sub>
b) Overall	AWM/STYLE 21894	105°C / 300 V <sub>RMS</sub>
	SUN RES	
	60C OIL	
	AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>
	СМ	105°C
	VW-1	
2) CSA International	СМG	105°C
	FT4	
3) IEC	EN 60332-1 Flame Behavior	
	EN 60332-2 Flame Behavior	
4) CE:	EU Low Voltage Directive 2006/95/EC	

## Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.
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. For up-to-date information, please see Alpha's REACH SVHC Declaration.
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	-35 to 105°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	335 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	<sup>300</sup> V <sub>RMS</sub>	
2) Capacitance	36 pf/ft @1 kHz, Nominal Conductor to Conductor	
3) Ground Capacitance	65 pf/ft @1 kHz, Nominal	
4) Inductance	0.18 µH/ft, Nominal	
5) Conductor DCR	16.7 Ω/1000ft @20°C, Nominal	
6) OA Shield DCR	9.3 Ω/1000ft @20°C, Nominal	

#### Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	30 x 14 x 12 Continuous length
b) 500 FT	20 x 11 x 8 Continuous length
c) 100 FT	16 x 11 x 8 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

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

To Whom It May Concern:

Alpha Wire Part Number: 5199/60C

5199/60C, RoHS-Compliant Commencing With 8/1/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above 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) 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.

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 & QA Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000 2/9/2017