



Request a Sample

# Customer Specification PART NO. 5110/80C

Construction

		Diameters (In)
1) Component 1	80 X 1 COND	
a) Conductor	22 (7/30) AWG Tinned Copper	0.030
b) Insulation	0.010" Wall, Nom. PVC, Semi Rigid	0.050
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(1) Color Code	Alpha Wire Color Code E	
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Cand	Celan	Cond	Color	Cond	Color
Cond	Color	Cond	Color	Cond	Color
1	BLACK	28	WHITE/BROWN/RED	55	WHITE/VIOLET/SLAT
2	BROWN	29	WHITE/BROWN/ORA NGE	56	WHITE/BLACK/BROW N/RED
3	RED	30	WHITE/BROWN/YELL OW	57	WHITE/BLACK/BROW N/ORANGE
4	ORANGE	31	WHITE/BROWN/GRE EN	58	WHITE/BLACK/BROW N/YELLOW
5	YELLOW	32	WHITE/BROWN/BLUE	59	WHITE/BLACK/BROW N/GREEN
6	GREEN	33	WHITE/BROWN/VIOL ET	60	WHITE/BLACK/BROW N/BLUE
7	BLUE	34	WHITE/BROWN/SLAT	61	WHITE/BLACK/BROW N/VIOLET
8	VIOLET	35	WHITE/RED/ORANGE	62	WHITE/BLACK/BROW N/SLATE
9	SLATE	36	WHITE/RED/YELLOW	63	WHITE/BLACK/RED/Y
10	WHITE	37	WHITE/RED/GREEN	64	WHITE/BLACK/RED/G REEN
11	WHITE/BLACK	38	WHITE/RED/BLUE	65	WHITE/BLACK/RED/B LUE
12	WHITE/BROWN	39	WHITE/RED/VIOLET	66	WHITE/BLACK/RED/V
13	WHITE/RED	40	WHITE/RED/SLATE	67	WHITE/BLACK/RED/S LATE
14	WHITE/ORANGE	41	WHITE/ORANGE/YEL LOW	68	WHITE/BLACK/ORAN GE/YELLOW
15	WHITE/YELLOW	42	WHITE/ORANGE/GR EEN	69	WHITE/BLACK/ORAN GE/GREEN
16	WHITE/GREEN	43	WHITE/ORANGE/BLU E	70	WHITE/BLACK/ORAN GE/BLUE
17	WHITE/BLUE	44	WHITE/ORANGE/VIO	71	WHITE/BLACK/ORAN GE/VIOLET

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18	WHITE/VIOLET	45	WHITE/ORANGE/SLA TE	72	WHITE/BLACK/ORAN GE/SLATE
19	WHITE/SLATE	46	WHITE/YELLOW/GRE EN	73	WHITE/BLACK/YELL OW/GREEN
20	WHITE/BLACK/BROW N	47	WHITE/YELLOW/BLU	74	WHITE/BLACK/YELL OW/BLUE
21	WHITE/BLACK/RED	48	WHITE/YELLOW/VIOL ET	75	WHITE/BLACK/YELL OW/VIOLET
22	WHITE/BLACK/ORAN GE	49	WHITE/YELLOW/SLA TE	76	WHITE/BLACK/YELL OW/SLATE
23	WHITE/BLACK/YELL OW	50	WHITE/GREEN/BLUE	77	WHITE/BLACK/GREE N/BLUE
24	WHITE/BLACK/GREE	51	WHITE/GREEN/VIOL ET	78	WHITE/BLACK/GREE N/VIOLET
25	WHITE/BLACK/BLUE	52	WHITE/GREEN/SLAT	79	WHITE/BLACK/GREE N/SLATE
26	WHITE/BLACK/VIOLE T	53	WHITE/BLUE/VIOLET	80	WHITE/BLACK/BLUE/ VIOLET
27	WHITE/BLACK/SLATE	54	WHITE/BLUE/SLATE		
2) Cable Assembly		80 Components Cable	d		
a) Twists:		1.9 Twists/foot (min)			
b) Orientation:		Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		22 (7/30) AWG Tinned Copper			
b) Braid		Tinned Copper,70% Coverage, Min.			
4) Jacket		0.053" Wall, Nom.,PVC		0.665 (0.698 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 5110/80C 80C 22 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C OR AWM 2464 80C 300V OR AWM 21894 105C 300V SUN RES 60C OIL 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.]			

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	смб	105°C	
	FT4		
3) IEC	EN 60332-1 Flame Behavior		
	EN 60332-2 Flame Behavior		
4) CE:	EU Low Voltage Directive 2014/35/EC		

## 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. 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:	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.		

### **Properties**

1 100011100			
Physical & Mechanical Properties			
1) Temperature Range	-35 to 105°C		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	459 Lbs, Maximum		
4) Sunlight Resistance	Yes		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	300 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	16.6 Ω/1000ft @20°C, Nominal		
6) OA Shield DCR	1.2 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	24 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]

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

To Whom It May Concern:

Alpha Wire Part Number: 5110/80C

5110/80C, 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

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