



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
(4) O. l. O. d.	Alaba Mara Cala Cada E	
(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

18						
EN OW/GREEN WHITE/BLACK/BROW 47 WHITE/YELLOW/BLU 74 WHITE/BLACK/YELL OW/BLUE 21 WHITE/BLACK/RED 48 WHITE/YELLOW/VIOL 75 WHITE/BLACK/YELL OW/OLET 22 WHITE/BLACK/ORAN 49 WHITE/YELLOW/SLA 76 WHITE/BLACK/YELL OW/SLATE 23 WHITE/BLACK/YELL 50 WHITE/GREEN/BLUE 77 WHITE/BLACK/GREE N/BLUE 24 WHITE/BLACK/GREE 51 WHITE/GREEN/VIOL 78 WHITE/BLACK/GREE N/OLET 25 WHITE/BLACK/BLUE 52 WHITE/GREEN/SLAT 79 WHITE/BLACK/GREE N/SLATE 26 WHITE/BLACK/IOLE 53 WHITE/BLUE/VIOLET 80 WHITE/BLACK/BLUE/VIOLET 27 WHITE/BLACK/SLATE 54 WHITE/BLUE/SLATE 20 Cable Assembly 80 Components Cabled	18	WHITE/VIOLET	45		72	
N E OW/BLUE 21 WHITE/BLACK/RED 48 WHITE/YELLOW/VIOL 75 WHITE/BLACK/YELL OW/VIOLET 22 WHITE/BLACK/ORAN 49 WHITE/YELLOW/SLA 76 WHITE/BLACK/YELL OW/SLATE 23 WHITE/BLACK/YELL 50 WHITE/GREEN/BLUE 77 WHITE/BLACK/GREE OW 24 WHITE/BLACK/GREE 51 WHITE/GREEN/VIOL 78 WHITE/BLACK/GREE N/VIOLET 25 WHITE/BLACK/BLUE 52 WHITE/GREEN/SLAT 79 WHITE/BLACK/GREE N/SLATE 26 WHITE/BLACK/VIOLE 53 WHITE/BLUE/VIOLET 80 WHITE/BLACK/BLUE/ VIOLET 27 WHITE/BLACK/SLATE 54 WHITE/BLUE/SLATE 20 Cable Assembly 80 Components Cabled	19	WHITE/SLATE	46		73	
ET OW/VIOLET 22 WHITE/BLACK/ORAN 49 WHITE/YELLOW/SLA 76 WHITE/BLACK/YELL 23 WHITE/BLACK/YELL 50 WHITE/GREEN/BLUE 77 WHITE/BLACK/GREE 24 WHITE/BLACK/GREE 51 WHITE/GREEN/VIOL 78 WHITE/BLACK/GREE 25 WHITE/BLACK/BLUE 52 WHITE/GREEN/SLAT 79 WHITE/BLACK/GREE 26 WHITE/BLACK/VIOLE 53 WHITE/BLUE/VIOLET 80 WHITE/BLACK/BLUE/ 27 WHITE/BLACK/SLATE 54 WHITE/BLUE/SLATE 20 Cable Assembly 80 Components Cabled	20		47		74	
GE TE OW/SLATE 23 WHITE/BLACK/YELL 50 WHITE/GREEN/BLUE 77 WHITE/BLACK/GREE N/BLUE 24 WHITE/BLACK/GREE 51 WHITE/GREEN/VIOL 78 WHITE/BLACK/GREE N/VIOLET 25 WHITE/BLACK/BLUE 52 WHITE/GREEN/SLAT 79 WHITE/BLACK/GREE N/SLATE 26 WHITE/BLACK/VIOLE 53 WHITE/BLUE/VIOLET 80 WHITE/BLACK/BLUE/ VIOLET 27 WHITE/BLACK/SLATE 54 WHITE/BLUE/SLATE 2 Cable Assembly 80 Components Cabled	21	WHITE/BLACK/RED	48		75	
OW N/BLUE 24 WHITE/BLACK/GREE 51 WHITE/GREEN/VIOL 78 WHITE/BLACK/GREE N/VIOLET 25 WHITE/BLACK/BLUE 52 WHITE/GREEN/SLAT 79 WHITE/BLACK/GREE N/SLATE 26 WHITE/BLACK/VIOLE 53 WHITE/BLUE/VIOLET 80 WHITE/BLACK/BLUE/ VIOLET 27 WHITE/BLACK/SLATE 54 WHITE/BLUE/SLATE 2 Cable Assembly 80 Components Cabled	22		49		76	
N ET N/VIOLET 25 WHITE/BLACK/BLUE 52 WHITE/GREEN/SLAT 79 WHITE/BLACK/GREE N/SLATE 26 WHITE/BLACK/VIOLE 53 WHITE/BLUE/VIOLET 80 WHITE/BLACK/BLUE/VIOLET 27 WHITE/BLACK/SLATE 54 WHITE/BLUE/SLATE 2 Cable Assembly 80 Components Cabled	23		50	WHITE/GREEN/BLUE	77	
E N/SLATE 26 WHITE/BLACK/VIOLE 53 WHITE/BLUE/VIOLET 80 WHITE/BLACK/BLUE/VIOLET 27 WHITE/BLACK/SLATE 54 WHITE/BLUE/SLATE 2 Cable Assembly 80 Components Cabled	24		51		78	
T VIOLET 27 WHITE/BLACK/SLATE 54 WHITE/BLUE/SLATE 2) Cable Assembly 80 Components Cabled	25	WHITE/BLACK/BLUE			79	
2) Cable Assembly 80 Components Cabled	26		53	WHITE/BLUE/VIOLET	80	
	27	WHITE/BLACK/SLATE	54	WHITE/BLUE/SLATE		
	2) Cable Assembly		80 Components Cabled			
			1.9 Twists/foot (min)			
b) Orientation: Components to be arranged from INSIDE LAYER to OUTSIDE LAYER c) Core Wrap	,		Components to be arranged from INSIDE		c) Core Wrap	
Nonwoven Polyester Tape, 25% Overlap, Min. 3) Shield:	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					b) Braid	
Tinned Copper,70% Coverage, Min. 4) Jacket					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			•		b) Ripcord	
	1 End 810 Denier Nylor	1			c) Print	

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 10002	105°C / 300 V _{RMS}
b) Overall	AWM/STYLE 21894	105°C / 300 V _{RMS}
	SUN RES	
	60C OIL	
	AWM/STYLE 2464	80°C / 300 V _{RMS}
	СМ	105°C
	VW-1	
2) CSA International	СМС	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	459 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
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]

www.alphawire.com

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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

Alpha Wire

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