



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207  
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# Customer Specification

## PART NO. 5346C

Construction

		Diameters (In)	
1) Component 1	37 X 1 PAIR		
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 B		
Pair	Color	Pair	Color
1	WHITE-BLACK	14	BLACK-GREEN
2	WHITE-BROWN	15	BLACK-BLUE
3	WHITE-RED	16	BLACK-VIOLET
4	WHITE-ORANGE	17	BLACK-SLATE
5	WHITE-YELLOW	18	BROWN-RED
6	WHITE-GREEN	19	BROWN-ORANGE
7	WHITE-BLUE	20	BROWN-YELLOW
8	WHITE-VIOLET	21	BROWN-GREEN
9	WHITE-SLATE	22	BROWN-BLUE
10	BLACK-BROWN	23	BROWN-VIOLET
11	BLACK-RED	24	BROWN-SLATE
12	BLACK-ORANGE	25	RED-ORANGE
13	BLACK-YELLOW	26	RED-YELLOW
c) Pair	2/Cond Cabled Together		
(1) Twists:	8.0 Twists/foot (min)		
2) Cable Assembly	37 Components Cabled		
a) Twists:	1.8 Twists/foot (min)		
b) 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	0.063" Wall, Nom., PVC		0.738 (0.774 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 5346C 37PR 22 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C OR AWM 2343 80C 300V OR AWM 21895 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.]		

## Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 10002	105°C / 300 V <sub>RMS</sub>
b) Overall	AWM/STYLE 21895	105°C / 300 V <sub>RMS</sub>
	SUN RES	
	60C OIL	
	AWM/STYLE 2343	80°C
	CM	105°C
	VW-1	
2) CSA International	CMG	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	426 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Mutual Capacitance	24.9 pf/ft @1 kHz, Nominal
3) Ground Capacitance	45 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	77 Ω
5) Inductance	0.18 μH/ft, Nominal
6) Conductor DCR	16.8 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	1.27 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	16 x 11 x 8 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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# EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5346C

5346C , RoHS-Compliant Commencing With 8/1/2005 Production

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, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **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 11364-2006.

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)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

8/6/2015

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