

### **Customer Specification**

**PART NO. 5586C** 

#### Construction

						Diameter	rs (In)
1) Component 1			37 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				
Cond	Color	Cond		Color	Co	nd	Color
1	BLACK	14		WHITE/ORANGE	27		WHITE/BLACK/SLATE
2	BROWN	15		WHITE/YELLOW	28		WHITE/BROWN/RED
3	RED	16		WHITE/GREEN	29		WHITE/BROWN/ORANGE
4	ORANGE	17		WHITE/BLUE	30		WHITE/BROWN/YELLOW
5	YELLOW	18		WHITE/VIOLET	31		WHITE/BROWN/GREEN
6	GREEN	19		WHITE/SLATE	32		WHITE/BROWN/BLUE
7	BLUE	20		WHITE/BLACK/BROWN	33		WHITE/BROWN/VIOLET
8	VIOLET	21		WHITE/BLACK/RED	34		WHITE/BROWN/SLATE
9	SLATE	22		WHITE/BLACK/ORANGE	35		WHITE/RED/ORANGE
10	WHITE	23		WHITE/BLACK/YELLOW	36		WHITE/RED/YELLOW
11	WHITE/BLACK	24		WHITE/BLACK/GREEN	37		WHITE/RED/GREEN
12	WHITE/BROWN	25		WHITE/BLACK/BLUE			
13	WHITE/RED	26		WHITE/BLACK/VIOLET			
2) Cable Assembly			37 Components Cabled				
a) Twists:			2.3 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			22 (7/30) AWG Tinned Copper				
4) Jacket			0.063" Wall, Nom.,PVC			0.484 (0.509 Max.)	
a) Color(s)			Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White				e, White
b) Ripcord			1 End 810 Denier Nylon				
c) Print			ALPHA WIRE-* P/N 5586C 37C 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	
	СМ	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 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 Exemptions 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.			

## Properties

Physical & Mechanical Properties			
1) Temperature Range	-35 to 105°C		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	209 Lbs, Maximum		
4) Sunlight Resistance	Yes		
<b>Electrical Properties</b>	(For Engineering purposes only)		
1) Voltage Rating	300 V <sub>RMS</sub>		
2) Capacitance	35 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Ground Capacitance	63 pF/ft @1 kHz, Nominal		
4) Inductance	0.18 μH/ft, Nominal		
5) Conductor DCR	16.5 Ω/1000ft @20°C, Nominal		
6) OA Shield DCR	10.4 Ω/1000ft @20°C, Nominal		

#### Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	24 x 14 x 12 Continuous length	
b) 500 FT	18 x 14.25 x 8 Continuous length	
c) 100 FT	18 x 9 x 8 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	

#### www.alphawire.com

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

To Whom It May Concern:

Alpha Wire Part Number: 5586C

5586C, 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 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 5/4/2024

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