

Customer Specification

PART NO. 5599/27C

Construction

					Diameters (In)	
1) Component 1			27 X 1 COND			
a) Conductor			24 (7/32) AWG Tinned Copper		0.024	
b) Insulation			0.010" Wall, Nom. PVC, Semi Rigid		0.044	
(1) Color Code			Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	10	WHITE	19	WHITE/SLATE	
2	BROWN	11	WHITE/BLACK	20	WHITE/BLACK/BROWN	
3	RED	12	WHITE/BROWN	21	WHITE/BLACK/RED	
4	ORANGE	13	WHITE/RED	22	WHITE/BLACK/ORANGE	
5	YELLOW	14	WHITE/ORANGE	23	WHITE/BLACK/YELLOW	
6	GREEN	15	WHITE/YELLOW	24	WHITE/BLACK/GREEN	
7	BLUE	16	WHITE/GREEN	25	WHITE/BLACK/BLUE	
8	VIOLET	17	WHITE/BLUE	26	WHITE/BLACK/VIOLET	
9	SLATE	18	WHITE/VIOLET	27	WHITE/BLACK/SLATE	
2) Cable Assembly			27 Components Cabled			
a) Twists:			3.0 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			24 (7/32) AWG Tinned Copper			
4) Jacket			0.063" Wall, Nom.,PVC		0.405 (0.427 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 5599/27C 27C 24 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 _{RMS}	
b) Overall	AWM/STYLE 21895	105°C / 300 V _{RMS}	
	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 2014/35/EU		

Environmental

1) CF: FU Directive 2011/65/F	EU(RoHS2), EU Directive 2015/863/EU (RoHS3):
If CL. 20 Bilective 2011/03/2	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 190	
	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℃				
2) Bend Radius	10X Cable Diameter				
3) Pull Tension	99 Lbs, Maximum				
4) Sunlight Resistance	Yes				
Electrical Properties	(For Engineering purposes only)				
1) Voltage Rating	300 V _{RMS}				
2) Capacitance	31 pF/ft @1 kHz, Nominal Conductor to Conductor				
3) Ground Capacitance	56 pF/ft @1 kHz, Nominal				
4) Inductance	0.19 μH/ft, Nominal				
5) Conductor DCR	26 Ω/1000ft @20°C, Nominal				
6) OA Shield DCR	13.4 Ω/1000ft @20°C, Nominal				

Other

24 x 14 x 12 Continuous length 18 x 9 x 8 Continuous length
18 x 9 x 8 Continuous length
12 x 5.94 x 5 Continuous length
[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: 5599/27C

5599/27C, 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 "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product is also 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 5/17/2024

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