

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Request a Sample

# Customer Specification PART NO. 5100/25C

Construction

				Diameters (In)		
1) Component 1		25 X 1 COND	25 X 1 COND			
a) Conductor		24 (7/32) AWG 1	24 (7/32) AWG Tinned Copper		0.024	
b) Insulation		0.010" Wall, Non	n. PVC, Semi Rigid	0.044	0.044	
(1) Color Code		Alpha Wire Colo	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/BROW N	
3	RED	12	WHITE/BROWN	21	WHITE/BLACK/RED	
4	ORANGE	13	WHITE/RED	22	WHITE/BLACK/ORAN GE	
5	YELLOW	14	WHITE/ORANGE	23	WHITE/BLACK/YELL OW	
6	GREEN	15	WHITE/YELLOW	24	WHITE/BLACK/GREE N	
7	BLUE	16	WHITE/GREEN	25	WHITE/BLACK/BLUE	
8	VIOLET	17	WHITE/BLUE			
9	SLATE	18	WHITE/VIOLET			
2) Cable Assembly		25 Components	25 Components Cabled			
a) Twists:		4.0 Twists/foot (r	4.0 Twists/foot (min)			
b) Orientation:			Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap		Nonwoven Polye	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		Alum/Mylar Tape	Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In	Foil Facing In			
b) Drain Wire		24 (7/32) AWG 1	24 (7/32) AWG Tinned Copper			
4) Jacket		0.032" Wall, Non	0.032" Wall, Nom.,PVC		0.336 (0.355 Max.)	
a) Color(s)		Slate, Black, Yel	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White			
b) Ripcord		1 End 810 Denie	1 End 810 Denier Nylon			
c) Print		XTRAGUARD(R) 2464 80C 300V ( OIL VW-1 LLX CE ROHS (SEQ * = Factory Code	ALPHA WIRE-* P/N 5100/25C 25C 24 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.]			

Applicable Specifications

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	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

Physical & Mechanical Properties				
1) Temperature Range	-35 to 105°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	91 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	<sup>300 V</sup> RMS			
2) Capacitance	32 pF/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	58 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	13.5 Ω/1000ft @20°C, Nominal			

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	18 x 12 x 8 Continuous length
b) 500 FT	16 x 11 x 8 Continuous length
c) 100 FT	12 x 10 x 5 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: 5100/25C

5100/25C, 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)

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:

Dave Watson, Director of Engineering & QA Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000 3/24/2020

## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Alpha Wire:

5100/25C SL005 5100/25C SL002 5100/25C SL001