

### **Customer Specification**

PART NO. 5129/27C

Construction

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lor HITE- ACK HITE- OWN HITE-RED HITE- RANGE HITE- LLOW HITE- EEN HITE- JE HITE- JE HITE- JE	<ol> <li>10</li> <li>11</li> <li>12</li> <li>13</li> <li>14</li> <li>15</li> <li>16</li> </ol>	BLACK- BROWN BLACK-RED BLACK- ORANGE BLACK- YELLOW BLACK- GREEN BLACK- BLUE BLACK-	<ol> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> </ol>	BROWN- ORANGE BROWN- YELLOW BROWN- GREEN BROWN- BLUE BROWN-	Alpha Wire Color Code B	
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LLOW HITE- EEN HITE- JE HITE- DLET	15 16	GREEN BLACK- BLUE BLACK-		1		
EEN HITE- JE HITE- DLET	16	BLUE BLACK-				
UE HITE- DLET			24	BROWN- SLATE		
OLET	17	VIOLET	25	RED- ORANGE		
HITE-	17	BLACK- SLATE	26	RED- YELLOW		
ATE	18	BROWN- RED	27	RED-GREEN		
					2/Cond Cabled Together	
c) Pair (1) Twists:					8.0 Twists/foot (min)	
2) Cable Assembly					27 Components Cabled	
a) Twists:					1.6 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:					A/P/A Tape, 20% Overlap, Min.	
a) Drain Wire					22 (7/30) AWG Tinned Copper	
b) Braid					Tinned Copper,70% Coverage, Nom.	
					0.053" Wall, Nom.,PVC	0.642 (0.675 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 5129/27C 27PR 22 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C SUN RES OR AWM 2464 80C 300V OR AWM 2517 105C 300V VW-1 LLXXXXXX CSA 105C TYPE CMG FT4 CE ROHS OIL RESISTANT (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings depending	
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## Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 10002	105°C / 300 V <sub>RMS</sub>
b) Overall	AWM/STYLE 2517	105°C / 300 V <sub>RMS</sub>
	SUN RES	
	AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>
	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) Other	Other Oil Resistant	
5) 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	311 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>	
2) Mutual Capacitance	24.2 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	44 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	78 Ω	
5) Inductance	0.18 μH/ft, Nominal	
6) Conductor DCR	16.6 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	1.86 Ω/1000ft @20°C, Nominal	

### Other

Flange x Traverse x Barrel (inches)	
30 x 14 x 12 Continuous length	
24 x 14 x 12 Continuous length	
18 x 9 x 8 Continuous length	
[Spool dimensions may vary slightly]	
	30 x 14 x 12 Continuous length 24 x 14 x 12 Continuous length 18 x 9 x 8 Continuous length

#### www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure there accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

💋 AlphaWire

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

To Whom It May Concern:

Alpha Wire Part Number: 5129/27C

#### 5129/27C, 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 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)		

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 12/17/2024

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374 Tel: 1-908-925-8000

### **Mouser Electronics**

Authorized Distributor

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

Alpha Wire:

5129/27C SL005 5129/27C SL002