



Customer Specification

PART NO. 5139/27C

Construction				

						Diameters (In)	
1) Component 1			27 X 1 PAIR				
a) Co	nductor					18 (16/30) AWG Tinned Copper	0.047
b) Ins	sulation					0.016" Wall, Nom. PVC	0.079
(1) C	olor Code					Alpha Wire Color Code A	
Pair	Color	Pair	Color	Pair	Color		-
1	BLACK-RED	10	RED-BLUE	19	WHITE- BLUE		
2	BLACK- WHITE	11	RED- YELLOW	20	WHITE- BROWN		
3	BLACK- GREEN	12	RED- BROWN	21	WHITE- ORANGE		
4	BLACK- BLUE	13	RED- ORANGE	22	WHITE- YELLOW		
5	BLACK- BROWN	14	GREEN- BLUE	23	BLUE- BROWN		
6	BLACK- YELLOW	15	GREEN- WHITE	24	BLUE- ORANGE		
7	BLACK- ORANGE	16	GREEN- BROWN	25	BLUE- YELLOW		
8	RED-GREEN	17	GREEN- ORANGE	26	BROWN- ORANGE		
9	RED-WHITE	18	GREEN- YELLOW	27	BROWN- YELLOW		
c) Pa	ir					2/Cond Cabled Together	
(1) Tı	wists:					5.3 Twists/foot (min)	
2) Ca	ble Assembly					27 Components Cabled	
a) Tw	vists:					1.0 Twists/foot (min)	
b) Or	rientation:					Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Co	re Wrap					Nonwoven Polyester Tape, 20% Overlap, Min.	
3) Sh	ield:					A/P/A Tape, 20% Overlap, Min.	
a) Dr	ain Wire					18 (16/30) AWG Tinned Copper	
b) Br	aid					Tinned Copper,70% Coverage, Nom.	
4) Jacket			0.083" Wall, Nom.,PVC	1.000 (1.036 Max.)			
a) Co	olor(s)					Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White	
b) Ripcord			1 End 810 Denier Nylon				
c) Pri	int					ALPHA WIRE-* P/N 5139/27C 27PR 18 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C SUN RES OR AWM 2464 80C 300V OR AWM 2517 105C 300V VW-1 OR C(UL) TYPE CMG 105C FT4 CE ROHS OIL RESISTANT (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 1569	105°C / 300 V _{RMS}
b) Overall	AWM/STYLE 2517	105°C / 300 V _{RMS}
	SUN RES	
	AWM/STYLE 2464	80°C / 300 V _{RMS}
	СМ	105°C
	VW-1	
2) CSA International	C(UL) TYPE CMG	105°C
	FT4	
3) IEC	EN 60332-1 Flame Behavior	
	EN 60332-2 Flame Behavior	
4) 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	-30 to 105°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	707 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Mutual Capacitance	32 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	58 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	67 Ω	
5) Inductance	0.18 μH/ft, Nominal	
6) Conductor DCR	7.1 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	1.15 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	48 x 26 x 18 Continuous length	
b) 500 FT	36 x 14 x 12 Continuous length	
c) 100 FT	24 x 14 x 12 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	
Notes:		
a) Oil Resistant Jacket (7d @ 60C).		
a) on Resistant sucree (14 @ 000).		

www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

©2019 ALPHA WIRE - all rights reserved.

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.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

ALPHA WIRE - CONFIDENTIAL AND PROPRIETARY Notice to persons receiving this document and/or technical information. This document is confidential and is the exclusive property of ALPHA WIRE, and is merely on loan and subject to recall by ALPHA WIRE at any time. By taking possession of this document, the recipient acknowledges and agrees that this document cannot be used in any manner adverse to the interests of ALPHA WIRE, and that no portion of this document may be copied or otherwise reproduced without the prior written consent of ALPHA WIRE. In the case of conflicting contractual provisions, this notice shall govern the status of this document.

- Str />

- Str /



EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5139/27C

5139/27C, 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)

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:

5139/27C SL005