



Customer Specification

PART NO. 5279/27C

Construction		

mponent 1 nductor sulation olor Code Color					Diameters (In) 27 X 1 PAIR	
nductor sulation olor Code					ZIXIFAIN	
olor Code					24 (7/32) AWG Tinned Copper	0.024
					0.010" Wall, Nom. PVC, Semi Rigid	0.044
					Alpha Wire Color Code B	
COIOI	Pair	Color	Pair	Color		1
WHITE-		BLACK-		BROWN-		
BLACK	10	BROWN	19	ORANGE		
WHITE- BROWN	11	BLACK-RED	20	BROWN- YELLOW		
WHITE-RED	12	BLACK- ORANGE	21	BROWN- GREEN		
WHITE- ORANGE	13	BLACK- YELLOW	22	BROWN- BLUE		
WHITE- YELLOW	14	BLACK- GREEN	23	BROWN- VIOLET		
WHITE- GREEN	15	BLACK- BLUE	24	BROWN- SLATE		
WHITE- BLUE	16	BLACK- VIOLET	25	RED- ORANGE		
WHITE- VIOLET	17	BLACK- SLATE	26	RED- YELLOW		
WHITE- SLATE	18	BROWN- RED	27	RED-GREEN		
r					2/Cond Cabled Together	
vists:					9.6 Twists/foot (min)	
ble Assembly					27 Components Cabled	
ists:					1.8 Twists/foot (min)	
ientation:					Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap			Nonwoven Polyester Tape, 20% Overlap, Min.			
ield:					A/P/A Tape, 20% Overlap, Min.	
ain Wire					24 (7/32) AWG Tinned Copper	
aid					Tinned Copper,70% Coverage, Nom.	
4) Jacket			0.032" Wall, Nom.,PVC	0.540 (0.570 Max.)		
a) Color(s)			Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White			
b) Ripcord			1 End 810 Denier Nylon			
nt					ALPHA WIRE-* P/N 5279/27C 27PR 24 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	
	WHITE-RED WHITE- ORANGE WHITE- YELLOW WHITE- BLUE WHITE- VIOLET WHITE- SLATE r vists: ble Assembly ists: ientation: re Wrap ield: ain Wire aid ket lor(s)	BROWN 11 WHITE-RED 12 WHITE-ORANGE 14 WHITE-YELLOW 15 WHITE-GREEN 15 WHITE-BLUE 16 WHITE-VIOLET 17 WHITE-SLATE 18 r vists: ble Assembly ists: ientation: re Wrap ield: ain Wire aid ket lor(s)	BROWN WHITE-RED 12 BLACK-ORANGE WHITE-ORANGE BLACK-ORANGE BLACK-OR	BROWN WHITE-RED 12 BLACK-ORANGE WHITE-ORANGE 13 BLACK-YELLOW WHITE-YELLOW WHITE-YELLOW WHITE-GREEN 15 BLACK-GREEN WHITE-BLUE WHITE-BLUE WHITE-UOLET WHITE-VIOLET WHITE-SLATE WHITE-SLATE BROWN-RED Trevists: ble Assembly ists: ientation: re Wrap ield: ain Wire aid cket lor(s) coord	BROWN 11 BLACK-RED 20 YELLOW WHITE-RED 12 BLACK-ORANGE 21 BROWN-GREEN WHITE-ORANGE 13 BLACK-YELLOW BLUE WHITE-YELLOW 14 BLACK-YELLOW VIOLET WHITE-YELLOW 15 BLACK-YOLET WHITE-BLUE 16 BLACK-YOLET WHITE-BLUE 16 BLACK-YOLET WHITE-BLUE 17 BLACK-YOLET WHITE-YOLET 17 BLACK-YELLOW WHITE-YOLET 18 BROWN-SLATE WHITE-YOLET 18 BROWN-SLATE WHITE-SLATE WHITE-SL	BROWN 11 BLACK-RED 20 VELLOW WHITE-RED 12 DRACK-ORANGE 21 BROWN-ORANGE 13 BLACK-ORANGE 22 BROWN-ORANGE 14 BLACK-ORANGE 23 BROWN-VELLOW WHITE-ORANGE 15 BLACK-ORANGE 24 BROWN-ORANGE WHITE-ORANGE 25 RED-ORANGE WHITE-ORANGE 26 RED-ORANGE WHITE-ORANGE 27 RED-ORANGE WHITE-ORANGE 28 RED-ORANGE WHITE-ORANGE 27 RED-ORANGE WHITE-ORANGE 28 RED-ORANGE WHITE-ORANGE WH

Applicable Specifications

1) UL			
a) Component 1	AWM/STYLE 10002	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	CMG	105°C	
	FT4		
B) 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	-35 to 105°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	202 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Mutual Capacitance	22.5 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	40 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	83 Ω	
5) Inductance	0.19 μH/ft, Nominal	
6) Conductor DCR	26 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	1.87 Ω/1000ft @20°C, Nominal	•

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	30 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]	
Notes:		
a) Oil Resistant Jacket (7d @ 60C).		

www.alphawire.com

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5279/27C

5279/27C, 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 4/1/2025

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