



# Customer Specification PART NO. 5279/51C

Construction

				Diameters (In)		
1) Component 1		51 X 1 PAIR				
a) Conductor		24 (7/32) AWG TC		0.024	0.024	
b) Insulation		0.010" Wall, Nom. PVC, Semi Rigid		0.044	0.044	
(1) Color Code		Alpha Wire Color Code B				
Pair	Color	Pair	Color	Pair	Color	
1	WHITE-BLACK	18	BROWN-RED	35	ORANGE-SLATE	
2	WHITE-BROWN	19	BROWN-ORANGE	36	YELLOW-GREEN	
3	WHITE-RED	20	BROWN-YELLOW	37	YELLOW-BLUE	
4	WHITE-ORANGE	21	BROWN-GREEN	38	YELLOW-VIOLET	
5	WHITE-YELLOW	22	BROWN-BLUE	39	YELLOW-SLATE	
6	WHITE-GREEN	23	BROWN-VIOLET	40	GREEN-BLUE	
7	WHITE-BLUE	24	BROWN-SLATE	41	GREEN-VIOLET	
8	WHITE-VIOLET	25	RED-ORANGE	42	GREEN-SLATE	
9	WHITE-SLATE	26	RED-YELLOW	43	BLUE-VIOLET	
10	BLACK-BROWN	27	RED-GREEN	44	BLUE-SLATE	
11	BLACK-RED	28	RED-BLUE	45	VIOLET-SLATE	
12	BLACK-ORANGE	29	RED-VIOLET	46	WHITE/BLACK- BLACK	
13	BLACK-YELLOW	30	RED-SLATE	47	WHITE/BLACK- BROWN	
14	BLACK-GREEN	31	ORANGE-YELLOW	48	WHITE/BLACK-RED	
15	BLACK-BLUE	32	ORANGE-GREEN	49	WHITE/BLACK- ORANGE	
16	BLACK-VIOLET	33	ORANGE-BLUE	50	WHITE/BLACK- YELLOW	
17	BLACK-SLATE	34	ORANGE-VIOLET	51	WHITE/BLACK- GREEN	
c) Pair		2/Cond Cabled Together				
(1) Twists:		9.6 Twists/foot (min)				
2) Cable Assem	ıbly	51 Components Cabled				
a) Twists:		1.7 Twists/foot (min)				
b) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.				
3) Shield:		A/P/A Tape, 25% Overlap, Min.				
a) Drain Wire		24 (7/32) AWG TC				
b) Braid		TC,70% Coverage, Min.				
4) Jacket		0.053" Wall, Nom.,PVC		0.739 (0.779 N	Max.)	
a) Color(s)		Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White			Vhite	
b) Ripcord		1 End 810 Denier Nylon				
c) Print		ALPHA WIRE-* P/N 5279/51C 51PR 24 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C OR AWM 2464 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 2464	80°C / 300 V <sub>RMS</sub>	
	СМ	105°C	
	VW-1		
2) CSA International	смб	105°C	
	FT4		
3) CE:	EU Low Voltage Directive 2006/95/EC		

# Environmental

4) OF FILE: (1. 0044/05/FILED 1100)				
1) CE: EU Directive 2011/65/EU(RoHS2):				
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. 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:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.			

**Properties** 

Physical & Mechanical Properties				
1) Temperature Range	-30 to 105°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	377 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V <sub>RMS</sub>			
2) Mutual Capacitance	23.1 pf/ft @1 kHz, Nominal			
3) Ground Capacitance	42 pf/ft @1 kHz, Nominal			
4) Characteristic Impedance	82 Ω			
5) Inductance	0.19 µH/ft, Nominal			
6) Conductor DCR	26 Ω/1000ft @20°C, Nominal			
7) OA Shield DCR	1.35 Ω/1000ft @20°C, Nominal	1.35 Ω/1000ft @20°C, Nominal		

### Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	36 x 14 x 12 Continuous length
b) 500 FT	30 x 14 x 12 Continuous length
c) 100 FT	16 x 11 x 8 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: 5279/51C

5279/51C, RoHS-Compliant Commencing With 8/1/2005 Production

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, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. 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 11364-2006.

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)

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 Company:

Dave Watson, Director of Engineering & QA

4/23/2013