

# **Customer Specification**

#### **PART NO. 5489/27C**

#### **Construction**

				Diamete	ers (In)	
1) Component 1		27 X 1 PAIR				
a) Conduct	cor	22 (7/30)	AWG Tinned Copper	0.030		
b) Insulation	on	0.010" W	all, Nom. PVC, Semi Rigid	0.050	0.050	
(1) Color C	ode	Alpha Wi	re Color Code B	· 		
Pair	Color	Pair	Color	Pair	Color	
1	WHITE-BLACK	10	BLACK-BROWN	19	BROWN-ORANGE	
2	WHITE-BROWN	11	BLACK-RED	20	BROWN-YELLOW	
3	WHITE-RED	12	BLACK-ORANGE	21	BROWN-GREEN	
4	WHITE-ORANGE	13	BLACK-YELLOW	22	BROWN-BLUE	
5	WHITE-YELLOW	14	BLACK-GREEN	23	BROWN-VIOLET	
6	WHITE-GREEN	15	BLACK-BLUE	24	BROWN-SLATE	
7	WHITE-BLUE	16	BLACK-VIOLET	25	RED-ORANGE	
8	WHITE-VIOLET	17	BLACK-SLATE	26	RED-YELLOW	
9	WHITE-SLATE	18	BROWN-RED	27	RED-GREEN	
c) Pair		2/Cond Cabled Together				
(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		DE		
c) Core Wrap		Nonwoven Polyester Tape, 20% Overlap, Min.		0,		
3) Shield:		Alum/Mylar Tape, 20% Overlap, Min.				
a) Foil Dire	ction	Foil Facing In				
b) Drain W	ire	22 (7/30) AWG Tinned Copper				
4) Jacket		0.053" Wall, Nom.,PVC		0.619 (0.0	0.619 (0.651 Max.)	
a) Color(s)		Slate, Black, Yellow, Orange, Blue, Green, Red,		n, Red, Sand Bei	Sand Beige, White	
b) Ripcord		1 End 810 Denier Nylon				
c) Print		XTRAGUA OR AWM VW-1 CE ROHS * = Facto	ALPHA WIRE-* P/N 5489/27C 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 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 2517	105°C / 300 V <sub>RMS</sub>	
	SUN RES		
	AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>	
	CM	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	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 190	07/2006):			
	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.			

Prope	erties			

Physical & Mechanical Properties			
1) Temperature Range	-35 to 105℃		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	302 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	8.3 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	24 x 14 x 12 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

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

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Tel: 1-800-52 ALPHA

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

To Whom It May Concern:

Alpha Wire Part Number: 5489/27C

5489/27C, 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 5/5/2024

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