

Customer Specification

PART NO. 5509/12

Construction

						Diameters (In)
1) Component 1 12 X 1 COND						
a) Conductor		22 (7/30) A'	22 (7/30) AWG Tinned Copper			
b) Insulation		0.032" Wall	0.032" Wall, Nom. PVC			
(1) Color Code		Alpha Wire	Alpha Wire Color Code E			
Cond	Color		Cond	Color	Cond	Color
1	BLACK		5	YELLOW	9	SLATE
2	BROWN		6	GREEN	10	WHITE
3	RED		7	BLUE	11	WHITE/BLACK
4	ORANG	E	8	VIOLET	12	WHITE/BROW
2) Cable Assembly 12 Cor		12 Compor	2 Components Cabled			
a) Twists:		2.1 Twists/f	2.1 Twists/foot (min)			
b) Orientation:		Componen	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.				
4) Jacket		0.063" Wall	0.063" Wall, Nom.,PVC			
a) Color(s) Slate, Black		Slate, Black	ack, Yellow, Orange, Blue, Green, Red, Sand Beige, White			
b) Ripcord 1 End 810 E		Denier Nylon				
c) Print		XTRAGUAR 600V OR AV VW-1 OR C FT4 CE ROH	ALPHA WIRE-* P/N 5509/12 12C 22 AWG XTRAGUARD(R) 1 (UL) MTW 600V OR AWM 2501 105C 600V OR AWM 21896 105C 600V SUN RES 60C OIL VW-1 OR CRU AWM I/II A/B 105C 600V FT4 CE ROHS (SEQ FOOTAGE) * = Factory Code			

Applicable Specifications

1) UL			
a) Component 1	AWM/STYLE 1015	105°C / 600 V _{RMS}	
	MTW	90°C Dry / 60°C Wet / 600 V _{RMS}	
b) Overall	MTW	90°C Dry / 60°C Wet / 600 V _{RMS}	
	AWM/STYLE 21896	105°C / 600 V _{RMS}	
	SUN RES		
	60C OIL		
	AWM/STYLE 2501	105°C / 600 V _{RMS}	
	VW-1		
2) CSA International			
a) Component 1	TEW	105°C / 600 V _{RMS}	
b) Overall	C(RU) AWM I/II A/B	105°C / 600 V _{RMS}	
	FT4		
3) IEC	EN 60332-1 Flame Behavior		
	EN 60332-2 Flame Behavior		
4) CE:	EU Low Voltage Directive 2014/35/EU		

Environmental

U(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.				
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℃				
2) Bend Radius	10X Cable Diameter				
3) Pull Tension	80 Lbs, Maximum				
4) Sunlight Resistance	Yes				
Electrical Properties	(For Engineering purposes only)				
1) Voltage Rating	600 V _{RMS}				
2) Capacitance	25 pF/ft @1 kHz, Nominal Conductor to Conductor				
3) Ground Capacitance	45 pF/ft @1 kHz, Nominal				
4) Inductance	0.25 μH/ft, Nominal				
5) Conductor DCR	16.4 Ω/1000ft @20°C, Nominal				
6) OA Shield DCR	1.65 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]	
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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5509/12

5509/12, 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 5/11/2024

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