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2200 US Highway 27 South
Richmond, IN 47374
Tel: 1-800-52 ALPHA
Web: www.alphawire.com

Customer Specification

PART NO. 5542

Construction

					Diameters (In)		
1) Component 1					2 X 1 COND		
a) Conductor					14 (41/30) AWG Tinned Copper		0.070
b) Insulation					0.032" Wall, Nom. PVC		0.134
(1) Color Code					Alpha Wire Color Code E		
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	2	BROWN				
2) Cable Assembly					2 Components Cabled		
a) Twists:					3.0 Twists/foot (min)		
b) Orientation:					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					14 (41/30) AWG Tinned Copper		
b) Braid					Tinned Copper,70% Coverage, Nom.		
4) Jacket					0.063" Wall, Nom.,PVC		0.426 (0.444 Max.)
a) Color(s)					Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White		
b) Ripcord					1 End 810 Denier Nylon		
c) Print					ALPHA WIRE-* P/N 5542 2C 14 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

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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

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

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Physical & Mechanical Properties	
1) Temperature Range	-30 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	102 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	600 V_{RMS}
2) Capacitance	43 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	77 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	49 Ω
5) Inductance	0.19 µH/ft, Nominal
6) Conductor DCR	2.8 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	1.52 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 500 FT	18 x 9 x 8 Continuous length
c) 100 FT	12 x 5.94 x 5 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: 5542

5542, RoHS-Compliant Commencing With 8/1/2005 Production

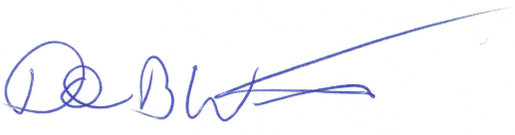
Note: all colors and put-ups

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 7/9/2024

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