

Customer Specification PART NO. 5542

Construction

				Diameters (In)		
1) Component 1		2 X 1 COND	2 X 1 COND			
a) Conductor		14 (41/30) AWG ⁻	14 (41/30) AWG TC		0.074	
b) Insulation		0.032" Wall, Nom	0.032" Wall, Nom. PVC			
(1) Color Code		Alpha Wire Color	Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	2	BROWN			
2) Cable Assembly		2 Components Ca	2 Components Cabled			
a) Twists:		3.7 Twists/foot (m	3.7 Twists/foot (min)			
b) Core Wrap		Nonwoven Polyes	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		A/P/A Tape, 25%	A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		14 (41/30) AWG ⁻	14 (41/30) AWG TC			
b) Braid		TC,70% Coverag	TC,70% Coverage, Min.			
4) Jacket		0.063" Wall, Nom	0.063" Wall, Nom.,PVC		0.434 (0.452 Max.)	
a) Color(s)		Slate, Black, Yello	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White		hite	
b) Ripcord		1 End 810 Denier	1 End 810 Denier Nylon			
c) Print		XTRAGUARD(R) LLXXXXXX CSA VOLTS FT4 CE F * = Factory Code	ALPHA WIRE-* P/N 5542 2C 14 AWG XTRAGUARD(R) 1 (UL) MTW 600V OR AWM 2501 VW-1 LLXXXXXX CSA AWM I/II A/B 105C 600 VOLTS 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 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 2501	105°C / 600 V _{RMS}
	VW-1	
2) CSA International		
a) Component 1	TEW	105°C / 600 V _{RMS}
b) Overall	AWM I/II A/B	105°C / 600 V _{RMS}
	FT4	
3) CE:	EU Low Voltage Directive 2006/95/EC	

Environmental

1) EU Directive 2002/95/EC(RoHS):				
	All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.			
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	103 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	600 V _{RMS}			
2) Capacitance	50 pf/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	90 pf/ft @1 kHz, Nominal			
4) Characteristic Impedance	45			
5) Inductance	0.19 μH/ft, Nominal			
6) Conductor DCR	2.8 /1000ft @20°C, Nominal			
7) OA Shield DCR	1.33 /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 12 x 8 Continuous length	
c) 100 FT	12 x 10 x 5 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	

www.alphawire.com

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:5542

5542, RoHS-Compliant Commencing With8/1/2005Production

This document certifies that the Alpha part numbers cited above are manufactured in accordancewith Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, with regards to restrictions of the use of certain hazardoussubstances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. **No Exemptions arerequired for RoHS Compliance on this item.**

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) Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)	
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'sknowledge, 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 productitself or the one that it will become part of. The intent of this document is not to be considered awarranty or quality specification. Regulatory information is for guidance purposes only. Productusers are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Dave Watson, Director of Engineering & QA

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