



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207  
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

# Customer Specification

## PART NO. 3542

### Construction

				Diameters (In)			
1) Component 1		20 X 1 COND					
a) Conductor		24 (19/36) AWG TC					
b) Insulation		0.010" Wall, Nom. PVC					
(1) Color(s)							
Cond	Color	Cond	Color	Cond	Color		
1	BROWN	8	SLATE	15	GREEN		
2	RED	9	WHITE	16	BLUE		
3	ORANGE	10	BLACK	17	VIOLET		
4	YELLOW	11	BROWN	18	SLATE		
5	GREEN	12	RED	19	WHITE		
6	BLUE	13	ORANGE	20	BLACK		
7	VILOET	14	YELLOW				
2) Cable Assembly		20 Components assembled parallel.			0.045 +/- 0.002 x		
					0.900 +/- 0.040		

### Applicable Specifications

1) UL	AWM/STYLE 2713	80°C / 150 V <sub>RMS</sub>
	VW-1	
2) Military		
a) Component 1	MIL-DTL-16878/1 (Type B)	105°C / 600 V <sub>RMS</sub>

### 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 any of the substances listed on the European Union REACH Substance of Very High Concern (SVHC) candidate list, dated 30 March 2010, in excess of a concentration of 0.1% weight/weight.
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	-55 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	75 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	600 V <sub>RMS</sub>
2) Capacitance	32 pf/ft @ 1 kHz, Nominal Conductor to Conductor
3) Inductance	0.19 µH/ft, Nominal
4) Conductor DCR	23.9 /1000ft @20°C, Nominal

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 100 FT	11 x 1 x 3 Continuous length
<i>[Spool dimensions may vary slightly]</i>	

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## RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:3542

3542 , RoHS-Compliant Commencing With3/1/2005Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, 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 these Directives for the specific definitions and extents of these Directives. No Exemptions are required 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)	0.1% by weight (1000 ppm)
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'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

11/1/2012

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Authorized Distributor

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