

# Customer Specification

## PART NO. 3412

### Construction

				Diameters (In)	
1) Component 1		12 X 1 COND			
a) Conductor		18 (19/30) AWG TC		0.050	
b) Insulation		0.016" Wall, Nom. PVC		0.082	
(1) Color Code		Alpha Wire Color Code F			
Cond	Color	Cond	Color	Cond	Color
1	BLACK	5	ORANGE	9	GREEN/BLACK
2	WHITE	6	BLUE	10	ORANGE/BLACK
3	RED	7	WHITE/BLACK	11	BLUE/BLACK
4	GREEN	8	RED/BLACK	12	BLACK/WHITE
2) Cable Assembly		12 Components Cabled			
a) Twists:		2.4 Twists/foot (min)			
b) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.			
3) Shield		TC BRAID Shield,90% Coverage, Min.			
4) Jacket		0.035" Wall, Nom.,PVC		0.442 (0.459 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N 3412 ROHS * = Factory Code			

### Applicable Specifications

1) Military			
a) Component 1	MIL-W-16878/Type C	105°C / 1000 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) 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	193 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	1000 V <sub>RMS</sub>
2) Capacitance	53 pf/ft @ 1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	95 pf/ft @ 1 kHz, Nominal
4) Inductance	0.17 µH/ft, Nominal
5) Conductor DCR	6.1 /1000ft @20°C, Nominal
6) OA Shield DCR	1.49 /1000ft @20°C, Nominal

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 100 FT	12 x 10 x 5 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:3412

3412 , RoHS-Compliant Commencing With10/1/2005Production

*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 hazardousubstances used in the manufacture of electrical and electronic equipment. The reader is referredto 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)	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)

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Authorized Signatory for the Alpha Wire Company:



Dave Watson, Director of Engineering & QA

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