

# Customer Specification

## PART NO. 3221

### Construction

				Diameters (In)	
1) Component 1		2 X 1 COND			
a) Conductor		22 (19/34) AWG TC		0.032	
b) Insulation		0.010" Wall, Nom. PVC/ 0.003" Wall NYLON		0.058	
(1) Color Code		Alpha Wire Color Code G			
Cond	Color	Cond	Color	Cond	Color
1	WHITE	2	BLACK		
2) Cable Assembly		2 Components Cabled			
a) Twists:		8.0 Twists/foot (min)			
b) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.			
3) Shield		TC BRAID Shield,90% Coverage, Min.			
4) Jacket		0.016" Wall, Nom.,PVC		0.173 (0.185 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N 3221 ROHS * = Factory Code			

### Applicable Specifications

1) Military		
a) Component 1	MIL-W-16878/Type B/N	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) 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	15.8 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	600 V <sub>RMS</sub>
2) Capacitance	49 pf/ft @ 1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	88 pf/ft @ 1 kHz, Nominal
4) Characteristic Impedance	45
5) Inductance	0.19 µH/ft, Nominal
6) Conductor DCR	15.2 /1000ft @20°C, Nominal
7) OA Shield DCR	5.4 /1000ft @20°C, Nominal

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 6 x 3.5 Continuous length
b) 500 FT	10 x 4 x 3.5 Continuous length
c) 100 FT	6.5 x 2 x 1.9 Continuous length
<i>[Spool dimensions may vary slightly]</i>	

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## EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 3221

3221 , RoHS-Compliant Commencing With 10/1/2005 Production

This document certifies that the Alpha part number cited above are manufactured in accordance with Directive 2011/65/EC of the European Parliament, 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.** Additionally, Alpha certifies that the listed part number is in compliance China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2006.

<b>Substance</b>	<b>Maximum Control Value</b>
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)

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Authorized Signatory for the Alpha Wire Company:



Dave Watson, Director of Engineering & QA

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