



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

Customer Specification

PART NO. 3221

Construction

				Diameters (In)	
1) Component 1		2 X 1 COND			
a) Conductor		22 (19/34) AWG TC			
b) Insulation		0.010" Wall, Nom. PVC/ 0.003" Wall NYLON		0.058	
(1) Color Code		Alpha Wire Company 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 _{RMS}

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 _{RMS}
2) Capacitance	49 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	88 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	45 Ω
5) Inductance	0.19 μH/ft, Nominal
6) Conductor DCR	15.2 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	5.4 Ω/1000ft @20°C, Nominal

Other

1) Packaging	
a) 1000 FT	
b) 500 FT	
c) 100 FT	

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:3221

3221 , RoHS-Compliant Commencing With10/1/2005Production

*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 Directives, 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	0.1% 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:

A handwritten signature in black ink, appearing to read 'Dave Watson'.

Dave Watson, Director of Engineering &QA

10/30/2010