

Customer Specification

PART NO. 5616B1201

Construction

				Diameters (In)	
1) Component 1		1 X 1 PAIR			
a) Conductor		12 (19/.0185) AWG BC			
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.135	
(1) Color(s)					
Pair	Color	Pair	Color	Pair	Color
1	BLACK-WHITE				
c) Pair		2/Cond Cabled Together			
(1) Twists:		3.0 Twists/foot (min)			
2) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In			
b) Drain Wire		16 (7/.0192) AWG TC			
3) Jacket		0.050" Wall, Nom.,PVC		0.374 (0.392 Max.)	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N 5616B1201 1PR 12 AWG (UL) TYPE TC 600V 90C DRY 75C WET SHIELDED SUN. RES. DIR. BUR. ROHS * = Factory Code			

Applicable Specifications

1) UL	TC	90°C / 600 V _{RMS}
	SUN RES	
	DIRECT BURIAL	

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	-20 to 90°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	122 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}
2) Mutual Capacitance	66 pf/ft @1 kHz, Nominal
3) Ground Capacitance	119 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	33
5) Inductance	0.16 μH/ft, Nominal
6) Conductor DCR	1.63 /1000ft @20°C, Nominal
7) OA Shield DCR	4.3 /1000ft @20°C, Nominal

Other

1) Packaging	
a) Bulk(Made-to-order)	

www.alphawire.com

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 Tel: 1-800-52 ALPHA (25742)

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:5616B1201

5616B1201 , 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)	
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

1/21/2011