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## **Construction**

						Diameters (In)		
1) Component 1					1 X 1 PAIR			
a) Conductor					20 (7/.0121) AWG Bare Copper	0.036		
b) Insulation					0.013" Wall, Nom. PVC/ 0.003" Wall NYLON	0.068		
(1) Co	(1) Color(s)							
Pair	Color	Pair	Color	Pair	Color			
1	BLACK-WHITE							
c) Pair	c) Pair					2/Cond Cabled Together		
(1) Twists:					6.0 Twists/foot (min)			
2) Shield:						Alum/Mylar Tape, 25% Overlap, Min.		
a) Foil Direction					Foil Facing In			
b) Drain Wire					22 (7/30) AWG Tinned Copper			
3) Jacket					0.040" Wall, Nom.,PVC	0.220 (0.234 Max.)		
a) Color(s)						BLACK		
b) Print						ALPHA WIRE-* P/N 5616B2001 1PR 20 AWG 600V 90C DRY 75C WET SHIELDED SUNLIGHT RESISTANT SUITABLE FOR DIRECT BURIAL CE ROHS * = Factory Code		

# **Applicable Specifications**

1) Other	Sunlight Resistant	
	Direct Burial	
2) CE: EU Low Voltage Directive 2014/35/EU		

### **Environmental**

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015. No Exemptions are required for RoHS Compliance on this item.
2) REACH Regulation (EC 1907/2006):	
	This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item.
3) California Proposition 65:	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.

# **Properties**

Physical & Mechanical Properties				
1) Temperature Range	-20 to 90°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	21.6 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	600 V <sub>RMS</sub>			
2) Mutual Capacitance	46 pF/ft @1 kHz, Nominal			
3) Ground Capacitance	83 pF/ft @1 kHz, Nominal	83 pF/ft @1 kHz, Nominal		
4) Characteristic Impedance	48 Ω			
5) Inductance	0.19 μH/ft, Nominal			
6) Conductor DCR	10.5 Ω/1000ft @20°C, Nominal			
7) OA Shield DCR	15.5 Ω/1000ft @20°C, Nominal			

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 10.5 x 5 Continuous length
b) 500 FT	12 x 5.94 x 5 Continuous length
c) 100 FT	6.5 x 4 x 2.5 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]
Notes:	
a) This cable design is based on UL 1277 but the product is not UL Listed.	

#### www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

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Richmond, IN 47374
Tel: 1-800-52 ALPHA
Web: www.alphawire.com

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□□□□□□□□0.1% (1000 ppm) Lead Mercury □□□□□□□□0.01% (100 ppm) Cadmium Hexavalent Chromium □□□□□□□□0.1% (1000 ppm) □□□□□□□□0.1% (1000 ppm) Polybrominated Biphenyls (PBB) Polybrominated Diphenyl Ethers (PBDE), Including Deca-BDE Bis(2-ethylhexyl) phthalate (DEHP) □□□□□□□□0.1% (1000 ppm) Butyl benzyl phthalate (BBP) Dibutyl phthalate (DBP) □□□□□□□□0.1% (1000 ppm) Diisobutyl phthalate (DIBP) □□□□□□□□0.1% (1000 ppm)

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