



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

# Customer Specification

## PART NO. 6220/18C

### Construction

				Diameters (In)	
1) Component 1		18 X 1 PAIR			
a) Conductor		22 (7/30) AWG TC		0.030	
b) Insulation		0.020" Wall, Nom. Polyethylene, Foam		0.070	
(1) Color Code		Alpha Wire Color Code A			
Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	7	BLACK-ORANGE	13	RED-ORANGE
2	BLACK-WHITE	8	RED-GREEN	14	GREEN-BLUE
3	BLACK-GREEN	9	RED-WHITE	15	GREEN-WHITE
4	BLACK-BLUE	10	RED-BLUE	16	GREEN-BROWN
5	BLACK-BROWN	11	RED-YELLOW	17	GREEN-ORANGE
6	BLACK-YELLOW	12	RED-BROWN	18	GREEN-YELLOW
c) Pair		2/Cond Cabled Together			
(1) Twists:		6.0 Twists/foot (min)			
2) Component 2		1 X 1 COND			
a) Conductor		22 (7/30) AWG TC		0.030	
b) Insulation		0.020" Wall, Nom. Polyethylene, Foam		0.070	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	WHITE				
3) Cable Assembly		19 Components Cabled			
a) Twists:		1.5 Twists/foot (min)			
4) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing Out			
b) Drain Wire		22 (7/30) AWG TC			
5) Jacket		0.050" Wall, Nom.,PVC		0.667 (0.712 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N 6220/18C 18PR 22 AWG 1C 22 AWG SHIELDED 75C (UL) TYPE CM OR AWM 2919 LOW VOLTAGE COMPUTER CABLE --- LLXXXXXX CSA TYPE CMG 60C FT4 ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

### Applicable Specifications

1) UL	AWM/STYLE 2919	80&deg;C / 30 V <sub>RMS</sub>
	CM	75&deg;C
	VW-1	
2) CSA International	CMG	60&deg;C
	FT4	

## 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 80&deg;C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	209 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Characteristic Impedance	105 +/- 10
3) Mutual Capacitance	12.5 pf/ft @ 1 kHz, Nominal
4) Ground Capacitance	22 pf/ft @ 1 kHz, Nominal
5) Velocity of Propagation	78 %
6) Attenuation, Max dB/100ft	0.16 @ 100 kHz
	0.4 @ 1 MHz
	2.3 @ 50 MHz

## Other

1) Packaging	
a) 1000 FT	
b) 500 FT	

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## RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:6220/18C

6220/18C , RoHS-Compliant Commencing With11/1/2004Production

*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

1/21/2011