



Customer Specification

PART NO. 5620B1820

Construction

						Diameters (In)	
1) Component 1						20 X 1 PAIR	
a) Conductor						18 (7/.0152) AWG Bare Copper	0.046
b) Insulation						0.016" Wall, Nom. PVC	0.078
(1) Print						ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)	
(2) C	olor(s)						
Pair	Color	Pair	Color	Pair	Color		
1	BLACK- WHITE#1	8	BLACK- WHITE#8	15	BLACK- WHITE#15		
2	BLACK- WHITE#2	9	BLACK- WHITE#9	16	BLACK- WHITE#16		
3	BLACK- WHITE#3	10	BLACK- WHITE#10	17	BLACK- WHITE#17		
4	BLACK- WHITE#4	11	BLACK- WHITE#11	18	BLACK- WHITE#18		
5	BLACK- WHITE#5	12	BLACK- WHITE#12	19	BLACK- WHITE#19		
6	BLACK- WHITE#6	13	BLACK- WHITE#13	20	BLACK- WHITE#20		
7	BLACK- WHITE#7	14	BLACK- WHITE#14				
c) Pair			•	•	2/Cond Cabled Together		
(1) T _\	wists:					5.3 Twists/foot (min)	
Indiv	idually Applie	d:					
d) Sh	nield:					Foil Free Alum/Mylar Tape, 25% Overlap, Min.	
(1) Foil Direction					Foil Facing In		
(2) D	rain Wire					20 (7/28) AWG Tinned Copper	
2) Ca	ble Assembly					20 Components Cabled	
a) Tw	vists:					1.1 Twists/foot (min)	
b) Orientation:					Components to be arranged from INSIDE LAYER to OUTSIDE LAYER		
c) Co	re Wrap					Clear Mylar Tape, 25% Overlap, Min.	
3) Sh	ield:					Alum/Mylar Tape, 25% Overlap, Min.	
a) Fo	il Direction					Foil Facing In	
b) Drain Wire						20 (7/28) AWG Tinned Copper	
4) Jacket					0.075" Wall, Nom.,PVC	0.910 (0.943 Max.)	
a) Color(s)						BLACK	
b) Print						ALPHA WIRE-* P/N 5620B1820 20PR 18 AWG SHIELDED 105C (UL) TYPE PLTC SUN RES OR C(UL) 105C TYPE CMG FT4 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending	

Applicable Specifications

1) UL	PLTC	105°C
	SUN RES	
2) CSA International	C(UL) TYPE CMG	105°C
	FT4	
3) 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 105°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	692 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Mutual Capacitance	55 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	99 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	41 Ω	
5) Inductance	0.18 μH/ft, Nominal	
6) Conductor DCR	6.7 Ω/1000ft @20°C, Nominal	
7) Component Shield DCR	8.3 Ω/1000ft @20°C, Nominal	
8) OA Shield DCR	5.5 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) Bulk(Made-to-order)		

www.alphawire.com

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5620B1820

5620B1820, RoHS-Compliant Commencing With 01/04/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. T the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitio **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control c

Substance	Maximum Control Value
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)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	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 diguide 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 content information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA 31/03/2025

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