



Customer Specification

PART NO. 5620B2020

Construction

		Diameters (In)			
1) Component 1		20 X 1 PAIR			
a) Conductor		20 (7/.0121) AWG Bare Copper		0.036	
b) Insulation		0.013" Wall, Nom. PVC		0.062	
(1) Print		ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)			
(2) Color(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) Twists:		6.9 Twists/foot (min)			
Individually Applied:					
d) Shield:		Foil Free Alum/Mylar Tape, 25% Overlap, Min.			
(1) Foil Direction		Foil Facing In			
(2) Drain Wire		22 (7/30) AWG Tinned Copper			

2) Cable Assembly	20 Components Cabled	
a) Twists:	1.3 Twists/foot (min)	
b) Orientation:	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap	Clear Mylar Tape, 25% Overlap, Min.	
3) Shield:	Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction	Foil Facing In	
b) Drain Wire	22 (7/30) AWG Tinned Copper	
4) Jacket	0.065" Wall, Nom.,PVC	0.741 (0.772 Max.)
a) Color(s)	BLACK	
b) Print	ALPHA WIRE-* P/N 5620B2020 20PR 20 AWG SHIELDED 105C (UL) TYPE PLTC SUN RES OR C(UL) 105C TYPE CMG FT4 CE ROHS * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>	

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	437 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V _{RMS}
2) Mutual Capacitance	54 pF/ft @1 kHz, Nominal
3) Ground Capacitance	97 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	42 Ω
5) Inductance	0.18 μH/ft, Nominal
6) Conductor DCR	10.6 Ω/1000ft @20°C, Nominal
7) Component Shield DCR	13.9 Ω/1000ft @20°C, Nominal
8) OA Shield DCR	8.3 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	36 x 14 x 12 Continuous length
b) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5620B2020

5620B2020, RoHS-Compliant Commencing With 10/1/2005 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 Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). This product also complies with UK - RoHS. The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

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)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering

6/6/2023

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