



# Customer Specification

## PART NO. 5650B2008

### Construction

		<b>Diameters (In)</b>			
1) Component 1		8 X 1 TRIAD			
a) Conductor		20 (7/.0121) AWG BC		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)					
Triad	Color	Triad	Color	Triad	Color
1	BLACK-WHITE#1-RED	4	BLACK-WHITE#4-RED	7	BLACK-WHIRE#7-RED
2	BLACK-WHITE#2-RED	5	BLACK-WHITE#5-RED	8	BLACK-WHITE#8-RED
3	BLACK-WHITE#3-RED	6	BLACK-WHITE#6-RED		
c) Pair		3/Cond Cabled Together			
(1) Twists:		6.0 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 TC			
2) Cable Assembly		8 Components Cabled			
a) Twists:		1.8 Twists/foot (min)			
b) 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 TC			
4) Jacket		0.055" Wall, Nom.,PVC		0.578 (0.603 Max.)	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N 5650B2008 8TRIAD 20 AWG SHIELDED 105C (UL) TYPE PLTC SUN RES OR C(UL) 60C TYPE CMG FT4 ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

### Applicable Specifications

1) UL	PLTC	105°C
	SUN RES	
2) CSA International	CMG	60°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 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	242 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Mutual Capacitance	48 pf/ft @1 kHz, Nominal
3) Ground Capacitance	86 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	46
5) Inductance	0.18 µH/ft, Nominal
6) Conductor DCR	10.6 /1000ft @20°C, Nominal
7) Component Shield DCR	11.9 /1000ft @20°C, Nominal
8) OA Shield DCR	9.2 /1000ft @20°C, Nominal

## Other

<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) 1000 FT	30 x 14 x 12 Continuous length
b) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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# RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:5650B2008

5650B2008 , RoHS-Compliant Commencing With4/1/2005Production

*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.***

<b>Substance</b>	<b>Maximum Control Value</b>
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)

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Authorized Signatory for the Alpha Wire Company:



Dave Watson, Director of Engineering & QA

11/1/2012

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