

# Customer Specification

## PART NO. 5661

### Construction

						Diameters (In)		
1) Component 1						4 X 1 COND		
a) Conductor						14 (41/30) AWG Bare Copper		0.074
b) Insulation						0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.116
(1) Print						ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED		
(2) Color Code						Alpha Wire Color Code KX		
Cond	Color	Cond	Color	Cond	Color			
1	GREEN/YELLOW	3	BLACK#2					
2	BLACK#1	4	BLACK#3					
2) Cable Assembly						4 Components Cabled		
a) Twists:						3.2 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:						A/P/A Tape, 25% Overlap, Min.		
a) Drain Wire						4 x 20 (10/30) AWG Tinned Copper		
b) Braid						Tinned Copper, 70% Coverage, Min.		
4) Jacket						0.050" Wall, Nom., PVC		0.418+/- 0.020
a) Color(s)						BLACK		
b) Jacket Separator						Tissue Tape, 25% Overlap, Min.		
c) Print						ALPHA WIRE-* P/N 5661 4C 14 AWG XTRAGUARD(R) MOTOR SUPPLY CABLE - EXXXXXX (UL) WTTC 1000V 90C OR (UL) TC-ER 600V 90C DRY 75C WET SUN RES DIR BUR OR MTW 14 AWG OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (SEQ FOOTAGE) * = Factory Code		

### Applicable Specifications

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1) UL	TC	90°C Dry / 75°C Wet / 600 V <sub>RMS</sub>
	EXPOSED RUN	
	DIRECT BURIAL	
	SUN RES	
	MTW	90°C Dry / 60°C Wet / 600 V <sub>RMS</sub>
	WTTC	90°C / 1000 V <sub>RMS</sub>
2) CSA International	C(RU) AWM I/II A/B	90°C / 600 V <sub>RMS</sub>
	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.

## Properties

Physical & Mechanical Properties	
1) Temperature Range	-25 to 90°C(static), -5 to 90°C (dynamic)
2) Bend Radius	10X Cable Diameter(static), 15X Cable Diameter(dynamic)
3) Pull Tension	167 Lbs, Maximum
Electrical Properties	
	(For Engineering purposes only)
1) Voltage Rating	600 V <sub>RMS</sub>
2) Capacitance	49 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	88 pF/ft @1 kHz, Nominal
4) Inductance	0.17 μH/ft, Nominal
5) Conductor DCR	2.6 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	1.3 Ω/1000ft @20°C, Nominal

## Other

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<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) Bulk(Made-to-order)	

[www.alphawire.com](http://www.alphawire.com)

Alpha Wire  
2200 US Highway 27 South  
Richmond, IN 47374

Tel: 1-800-52 ALPHA

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# EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5661

5661, RoHS-Compliant Commencing With 9/1/2008 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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

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

## Maximum Control Value

0.1% by weight (1000 ppm)  
0.1% by weight (1000 ppm)  
0.01% by weight (100 ppm)  
0.1% by weight (1000 ppm)  
0.1% by weight (1000 ppm)  
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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:

Dave Watson, Director of Engineering 3/31/2025

Alpha Wire  
2200 US Highway 27 South  
Richmond, IN 47374  
Tel: 1-908-925-8000