

## Customer Specification

### PART NO. 5663

### Construction

		Diameters (In)			
1) Component 1	4 X 1 COND				
a) Conductor	10 (105/30) AWG Bare Copper				0.118
b) Insulation	0.022" Wall, Nom. PVC/ 0.005" Wall NYLON				0.172
(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:	2.1 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 16 (26/30) AWG Tinned Copper				
b) Braid	Tinned Copper, 70% Coverage, Min.				
4) Jacket	0.063" Wall, Nom., PVC				0.579+/- 0.026
a) Color(s)	BLACK				
b) Jacket Separator	Tissue Tape, 25% Overlap, Min.				
c) Print	ALPHA WIRE-* P/N 5663 4C 10 AWG XTRAGUARD(R) MOTOR SUPPLY CABLE - EXXXXXX (UL) WTTTC 1000V 90C OR (UL) TC-ER 600V 90C DRY 75C WET SUN RES DIR BUR OR MTW 10 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	420 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	600 V <sub>RMS</sub>
2) Capacitance	55 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	99 pF/ft @1 kHz, Nominal
4) Inductance	0.16 μH/ft, Nominal
5) Conductor DCR	1.02 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	0.71 Ω/1000ft @20°C, Nominal

## Other

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

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

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# EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5663

5663, 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

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 5/7/2024

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