

Customer Specification

PART NO. 5663

Construction

| | | | | | | Diameters (In) | |
|---------------------|--------------|------|---------|------|-------|--|--|
| 1) Component 1 | | | | | | 4 X 1 COND | |
| a) Conductor | | | | | | 10 (105/30) AWG Bare Copper | |
| b) Insulation | | | | | | 0.022" Wall, Nom. PVC/ 0.005" Wall NYLON | |
| (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 | |
| 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) WTTC 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 _{RMS} |
| | EXPOSED RUN | |
| | DIRECT BURIAL | |
| | SUN RES | |
| | MTW | 90°C Dry / 60°C Wet / 600 V _{RMS} |
| | WTTC | 90°C / 1000 V _{RMS} |
| 2) CSA International | C(RU) AWM I/II A/B | 90°C / 600 V _{RMS} |
| | FT4 | |
| 3) CE: | EU Low Voltage Directive 2014/35/EU | |

Environmental

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|--|---|
| 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 _{RMS} |
| 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

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

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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 4/1/2025

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