2200 US Highway 27 South
Richmond, IN 47374
Tel: 1-800-52 ALPHA
Web: www.alphawire.com

# Customer Specification

# PART NO. 461019

# Construction

| | | Diameters (In) |
|---|---|---|
| 1) Component 1 | 1 X 1 HOOKUP | |
| a) Conductor | 10 (19/.0234) AWG Bare Copper | 0.117 |
| b) Insulation | 0.032" Wall, Nom. PVC | 0.181+/- 0.004 |
| (1) Print | ALPHA WIRE-* 10 AWG<br>E163872-* (UL) MTW OR TW OR AWM 1015/1230 105C<br>600V VW-1 OR C(RU) AWM I A/B 105C 600V FT1<br>OR TEW 105C 600V FT1 CE ROHS<br>* = Factory Code | |
| (2) Color(s) | WHITE, BLACK, RED, GREEN, YELLOW, BLUE, BROWN<br>ORANGE, SLATE, VIOLET | |
| | | |

## Applicable Specifications

| | | |
|---|---|---|
| 1) UL | AWM/STYLE 1015 | 105°C / 600 $V_{RMS}$ |
| | AWM/STYLE 1230 | 105°C Dry / 60°C Wet / 600 $V_{RMS}$ |
| | MTW | 90°C Dry / 60°C Wet / 600 $V_{RMS}$ |
| | VW-1 | |
| | TW | 60°C Dry / 60°C Wet / 600 $V_{RMS}$ |
| 2) CSA International | AWM I A/B | 80°C / 300 $V_{RMS}$ |
| | FT1 | |
| | TEW-105 | 105°C / 600 $V_{RMS}$ |
| | | |

# Environmental

| | |
|---|---|
| 1) EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3): | |
| | All materials used in the manufacture of this part are in compliance with European Directive 2011/65/EU and the amending Directive 2015/863/EU of 4 June 2015 regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. |
| 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 | -40 to 105°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 82 Lbs, Maximum |
| **Electrical Properties** | (For Engineering purposes only) |
| 1) Voltage Rating | 600 $V_{RMS}$ |
| 2) Inductance | 0.04 µH/ft, Nominal |
| 3) Conductor DCR | 1.02 Ω/1000ft @20°C, Nominal |
| | |

# Other

| **Packaging** | Flange x Traverse x Barrel (inches) |
|---|---|
| a) 5000 FT | 18 x 14.25 x 8 Continuous length |
| b) 1000 FT | 12 x 5.94 x 5 Continuous length |
| c) 500 FT | 10.5 x 5 x 3.5 Continuous length |
| d) Bulk(Made-to-order) | |
| | *[Spool dimensions may vary slightly]* |
| **Notes:** | |
| a) Certain colors and put-up combinations may only be available by special order, minimums may apply. | |
| | |

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# EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 461019

461019, RoHS-Compliant Commencing With 7/1/2005 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** | **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) |

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 10/30/2026

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