

## Customer Specification

# PART NO. 652418

## Construction

|                     |          |      |           |      |           | Diameters (In)                                                                                                                                                         |                |
|---------------------|----------|------|-----------|------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 1) Component 1      |          |      |           |      |           | 18 X 1 COND                                                                                                                                                            |                |
| a) Conductor        |          |      |           |      |           | 24 (7/32) AWG Bare Copper                                                                                                                                              | 0.024          |
| b) Insulation       |          |      |           |      |           | 0.022" Wall, Nom. PVC                                                                                                                                                  | 0.068          |
| (1) Print           |          |      |           |      |           | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED                                                                                                                  |                |
| (2) Color(s)        |          |      |           |      |           |                                                                                                                                                                        |                |
| Cond                | Color    | Cond | Color     | Cond | Color     |                                                                                                                                                                        |                |
| 1                   | BLACK #1 | 7    | BLACK #7  | 13   | BLACK #13 |                                                                                                                                                                        |                |
| 2                   | BLACK #2 | 8    | BLACK #8  | 14   | BLACK #14 |                                                                                                                                                                        |                |
| 3                   | BLACK #3 | 9    | BLACK #9  | 15   | BLACK #15 |                                                                                                                                                                        |                |
| 4                   | BLACK #4 | 10   | BLACK #10 | 16   | BLACK #16 |                                                                                                                                                                        |                |
| 5                   | BLACK #5 | 11   | BLACK #11 | 17   | BLACK #17 |                                                                                                                                                                        |                |
| 6                   | BLACK #6 | 12   | BLACK #12 | 18   | YELLOW/GF |                                                                                                                                                                        |                |
| 2) Cable Assembly   |          |      |           |      |           | 18 Components Cabled                                                                                                                                                   |                |
| a) Twists:          |          |      |           |      |           | 3.0 Twists/foot (min)                                                                                                                                                  |                |
| b) Orientation:     |          |      |           |      |           | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER                                                                                                           |                |
| 3) Jacket           |          |      |           |      |           | 0.045" Wall, Nom.,PVC, Oil Resistant                                                                                                                                   | 0.442+/- 0.029 |
| a) Color(s)         |          |      |           |      |           | SLATE                                                                                                                                                                  |                |
| b) Jacket Separator |          |      |           |      |           | Tissue Tape, 25% Overlap, Min.                                                                                                                                         |                |
| c) Print            |          |      |           |      |           | ALPHA WIRE-* P/N 652418 18C 24 AWG<br>XTRAGUARD(R) FLEXIBLE CONTROL CABLE RU AWM 2587<br>OR CRU AWM I/II A/B FT1 90C 600V<br>CE ROHS (SEQ FOOTAGE)<br>* = Factory Code |                |

## Applicable Specifications

|                      |                                     |                             |
|----------------------|-------------------------------------|-----------------------------|
| 1) UL                | AWM/STYLE 2587                      | 90°C / 600 V <sub>RMS</sub> |
| 2) CSA International | C(RU) AWM I/II A/B                  | 90°C / 600 V <sub>RMS</sub> |
|                      | FT1                                 |                             |
| 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.                                                                                                |
| 3) California Proposition 65:                                            | This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.                                     |
|                                                                          |                                                                                                                                                                                                                                                             |

## Properties

| Physical & Mechanical Properties |                                                       |
|----------------------------------|-------------------------------------------------------|
| 1) Temperature Range             | -40 to 90°C(static), -5 to 90°C (dynamic)             |
| 2) Bend Radius                   | 5X Cable Diameter(static), 5X Cable Diameter(dynamic) |
| 3) Pull Tension                  | 63 Lbs, Maximum                                       |
| Electrical Properties            |                                                       |
| (For Engineering purposes only)  |                                                       |
| 1) Voltage Rating                | 600 V <sub>RMS</sub>                                  |
| 2) Capacitance                   | 20.6 pF/ft @1 kHz, Nominal Conductor to Conductor     |
| 3) Inductance                    | 0.24 µH/ft, Nominal                                   |
| 4) Conductor DCR                 | 24.2 Ω/1000ft @20°C, Nominal                          |
|                                  |                                                       |

## Other

| Packaging  | Flange x Traverse x Barrel (inches)         |
|------------|---------------------------------------------|
| a) 1000 FT | 24 x 14 x 12 Continuous length              |
| b) 500 FT  | 18 x 14.25 x 8 Continuous length            |
| c) 100 FT  | 12 x 5.94 x 5 Continuous length             |
|            | <i>[Spool dimensions may vary slightly]</i> |
|            |                                             |

[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: 652418

652418, RoHS-Compliant Commencing With 2/15/2018 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)  
  
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 6/18/2025

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