

# Customer Specification

## PART NO. 45073/1

### Construction

|                   |       |      |       |      |              | Diameters (In)   |  |                    |
|-------------------|-------|------|-------|------|--------------|--|--|--------------------|
| 1) Component 1    |       |      |       |      |              | 3 X 1 COND   |  |                    |
| a) Conductor      |       |      |       |      |              | 16 (19/.0117) AWG Tinned Copper  |  | 0.059              |
| b) Insulation     |       |      |       |      |              | 0.016" Wall, Nom. TPE  |  | 0.091              |
| (1) Color Code    |       |      |       |      |              | Alpha Wire Color Code I2   |  |                    |
| Cond              | Color | Cond | Color | Cond | Color        |  |  |                    |
| 1                 | BROWN | 2    | BLUE  | 3    | GREEN/YELLOW |  |  |                    |
| 2) Cable Assembly |       |      |       |      |              | 3 Components Cabled  |  |                    |
| a) Twists:        |       |      |       |      |              | 4.4 Twists/foot (min)  |  |                    |
| b) Orientation:   |       |      |       |      |              | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER   |  |                    |
| c) Core Wrap      |       |      |       |      |              | Nonwoven Polyester Tape, 25% Overlap, Min.   |  |                    |
| 3) Jacket         |       |      |       |      |              | 0.045" Wall, Nom., TPE   |  | 0.290 (0.301 Max.) |
| a) Color(s)       |       |      |       |      |              | Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White  |  |                    |
| b) Ripcord        |       |      |       |      |              | 1 End 810 Denier Nylon   |  |                    |
| c) Print          |       |      |       |      |              | ALPHA WIRE-* P/N 45073/1 3C 16 AWG<br>XTRAGUARD(R) 4 (UL) TYPE PLTC 105C SUN RES OR AWM<br>21916 125C 300 V OR CRU AWM I/II A/B 125C 300V<br>FT1 P-07-KA140023-MSHA<br>CE ROHS (SEQ FOOTAGE)<br>* = Factory Code |  |                    |

### Applicable Specifications

|                      |   |                              |
|----------------------|---|------------------------------|
| 1) UL                | AWM/STYLE 21916                             | 125°C / 300 V <sub>RMS</sub> |
|                      | PLTC  | 105°C                        |
|                      | SUN RES                                     |                              |
| 2) CSA International | C(RU) AWM I/II A/B FT1                      | 125°C / 300 V <sub>RMS</sub> |
|                      | SUN RES (Black only)                        |                              |
| 3) Other             | PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED |                              |
| 4) 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

| <b>Physical &amp; Mechanical Properties</b> |   |
|---|---|
| 1) Temperature Range                        | -50 to 125°C                                      |
| 2) Bend Radius                              | 10X Cable Diameter                                |
| 3) Pull Tension                             | 61 Lbs, Maximum                                   |
| 4) Sunlight Resistance                      | Yes   |
| <b>Electrical Properties</b>                |   |
|   | (For Engineering purposes only)                   |
| 1) Voltage Rating                           | 300 V <sub>RMS</sub>                              |
| 2) Capacitance                              | 18.3 pF/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance                               | 0.17 μH/ft, Nominal                               |
| 4) Conductor DCR                            | 4.4 Ω/1000ft @20°C, Nominal                       |

## Other

|  |                                     |
|--|-------------------------------------|
| <b>Packaging</b>   | Flange x Traverse x Barrel (inches) |
| a) Bulk(Made-to-order)   |                                     |
| <b>Notes:</b>  |                                     |
| a) Print legend will contain CSA SUN RES on black cables only. |                                     |

[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: 45073/1

45073/1, RoHS-Compliant Commencing With 10/1/2014 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) ,<br>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 11/22/2024

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