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# Customer Specification

## PART NO. 45072

### Construction

|                   |       |                                                                                                                                                                                                                |       | Diameters (In)     |       |
|-------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------|-------|
| 1) Component 1    |       | 2 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 D                                                                                                                                                                                        |       |                    |       |
| Cond              | Color | Cond                                                                                                                                                                                                           | Color | Cond               | Color |
| 1                 | BLACK | 2                                                                                                                                                                                                              | RED   |                    |       |
| 2) Cable Assembly |       | 2 Components Cabled                                                                                                                                                                                            |       |                    |       |
| a) Twists:        |       | 6.0 Twists/foot (min)                                                                                                                                                                                          |       |                    |       |
| b) Core Wrap      |       | Nonwoven Polyester Tape, 25% Overlap, Min.                                                                                                                                                                     |       |                    |       |
| 3) Jacket         |       | 0.045" Wall, Nom.,TPE                                                                                                                                                                                          |       | 0.276 (0.287 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 45072 2C 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 2006/95/EC         |                              |

### Environmental

|                                        |                                                                                                                                                                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1) CE: EU Directive 2011/65/EU(RoHS2): |                                                                                                                                                                                                                                                     |
|                                        | This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C. |
| 2) California Proposition 65:          | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.                                                                                                                                |

## Properties

|                                                       |                                                   |
|-------------------------------------------------------|---------------------------------------------------|
| Physical & Mechanical Properties                      |                                                   |
| 1) Temperature Range                                  | -50 to 125°C                                      |
| 2) Bend Radius                                        | 10X Cable Diameter                                |
| 3) Pull Tension                                       | 41 Lbs, Maximum                                   |
| 4) Sunlight Resistance                                | Yes                                               |
| Electrical Properties (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) Characteristic Impedance                           | 83 Ω                                              |
| 4) Inductance                                         | 0.17 μH/ft, Nominal                               |
| 5) 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. |                                     |

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## EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 45072

45072 , RoHS-Compliant Commencing With 10/1/2014 Production

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **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 11364-2006.

| 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)  |

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Authorized Signatory for the Alpha Wire Company:

A handwritten signature in black ink, appearing to read 'Dave Watson'.

Dave Watson, Director of Engineering & QA

5/26/2016

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