

**ALPHA WIRE  
CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 45114**  
**Page 1 of 2 Pages**

**Issue: 15**  
**Issue Date: 1/19/2015**  
**Effective Date: 1/31/2015**

**A. Construction**

**Diameters (In)**

- |                |                             |       |
|----------------|-----------------------------|-------|
| 1) Component 1 | 4 X 1 COND                  |       |
| a) Conductor   | 24 (7/32) AWG Tinned Copper | 0.024 |
| b) Insulation  | 0.016" Wall, Nom. TPE       | 0.056 |
| (1) Color Code | Alpha Wire Color Code E     |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	RED		
2	BROWN	4	ORANGE		

- |                   |   |                    |
|-------------------|---|--------------------|
| 2) Cable Assembly | 4 Components Cabled   |                    |
| a) Twists:        | 8.0 Twists/foot (min)   |                    |
| b) Core Wrap      | Nonwoven Polyester Tape, 25% Overlap, Min.                        |                    |
| 3) Shield:        | A/P/A Tape, 25% Overlap, Min.                                     |                    |
| a) Drain Wire     | 24 (7/32) AWG Tinned Copper                                       |                    |
| b) Braid          | Tinned Copper, 70% Coverage, Min.                                 |                    |
| 4) Jacket         | 0.042" Wall, Nom., TPE  | 0.252 (0.263 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 45114  |                    |
|                   | XTRAGUARD(R) 4 RU AWM 20237/21918 125C 300V SUN                   |                    |
|                   | RES OR CRU AWM I/II A/B 125C 300 VOLTS FT1                        |                    |
|                   | P-07-KA140023-MSHA CE ROHS  |                    |
|                   | (SEQ FOOTAGE)   |                    |
|                   | * = Factory Code  |                    |

**B. Applicable Specifications**

- |                      |   |                              |
|----------------------|---|------------------------------|
| 1) UL                | AWM/STYLE 20237                             | 125°C / 300 V <sub>RMS</sub> |
|                      | AWM/STYLE 21918                             | 125°C / 300 V <sub>RMS</sub> |
|                      | 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         |                              |

**C. Environmental Compliance**

- |                               |  |
|-------------------------------|--|
| 1) CE:                        | EU Directive 2011/65/EU (RoHS2):<br>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 <a href="#">RoHS C of C</a> . |
| 2) California Proposition 65: | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.   |

**D. Physical & Mechanical Properties**

- |                        |                    |
|------------------------|--------------------|
| 1) Temperature Range   | -50 to 125°C       |
| 2) Bend Radius         | 10X Cable Diameter |
| 3) Pull Tension        | 20.9 Lbs, Maximum  |
| 4) Sunlight Resistance | Yes                |

**E. Electrical Properties**

- |                       |   |
|-----------------------|---|
|                       | (For Engineering purposes only)                   |
| 1) Voltage Rating     | 300 V <sub>RMS</sub>                              |
| 2) Capacitance        | 18.1 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 33 pf/ft @1 kHz, Nominal                          |
| 4) Inductance         | 0.22 µH/ft, Nominal                               |
| 5) Conductor DCR      | 26 Ω/1000ft @20°C, Nominal                        |
| 6) OA Shield DCR      | 4.1 Ω/1000ft @20°C, Nominal                       |

**F. Other**

- |              |                                     |
|--------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
|--------------|-------------------------------------|

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- a) Bulk(Made-to-order)
- 2) Notes:
  - a) Print legend will contain CSA SUN RES on black cables only.

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