

# ALPHA WIRE

## CUSTOMER PRODUCT SPECIFICATION

**Part Number: B957064**  
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**Issue: 3**  
**Issue Date: 10/12/2017**  
**Effective Date: 11/3/2017**

- |                        |                                 |                       |
|------------------------|---------------------------------|-----------------------|
| <b>A. Construction</b> |                                 | <b>Diameters (In)</b> |
| 1) Component 1         | 6 X 1 COND                      |                       |
| a) Conductor           | 16 (19/.0117) AWG Tinned Copper | 0.059                 |
| b) Insulation          | 0.016" Wall, Nom. PVC           | 0.091                 |
| (1) Color Code         | Alpha Wire Color Code D         |                       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	WHITE	5	ORANGE
2	RED	4	GREEN	6	BLUE

- |                   |  |                    |
|-------------------|--|--------------------|
| 2) Cable Assembly | 6 Components Cabled  |                    |
| a) Twists:        | 3.7 Twists/foot (min)  |                    |
| b) Orientation:   | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER |                    |
| c) Core Wrap      | Clear Mylar Tape, 25% Overlap, Min.                          |                    |
| 3) Shield:        | A/P/A Tape, 25% Overlap, Min.                                |                    |
| a) Drain Wire     | 18 (16/30) AWG Tinned Copper                                 |                    |
| b) Braid          | Tinned Copper, 70% Coverage, Min.                            |                    |
| 4) Jacket         | 0.032" Wall, Nom., PVC                                       | 0.370 (0.384 Max.) |
| a) Color(s)       | GREY   |                    |
| b) Ripcord        | 1 End 810 Denier Nylon                                       |                    |
| c) Print          | ALPHA WIRE-* P/N B957064                                     |                    |
|                   | 1.23MM2 (16AWG) (UL) TYPE CM 105C OR AWM 2464                |                    |
|                   | VW-1 OR C(UL) 105C TYPE CMG FT4 CE                           |                    |
|                   | ROHS (SEQ METERS)  |                    |
|                   | * = Factory Code   |                    |

*[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]*

### B. Applicable Specifications

- |                      |                                     |                              |
|----------------------|-------------------------------------|------------------------------|
| 1) UL                |                                     |                              |
| a) Component 1       | AWM/STYLE 1569                      | 105°C / 300 V <sub>RMS</sub> |
| b) Overall           | AWM/STYLE 2464                      | 80°C / 300 V <sub>RMS</sub>  |
|                      | CM                                  | 105°C                        |
|                      | VW-1                                |                              |
| 2) CSA International | C(UL) TYPE CMG                      | 105°C                        |
|                      | FT4                                 |                              |
| 3) IEC               | EN 60332-1 Flame Behavior           |                              |
|                      | EN 60332-2 Flame Behavior           |                              |
| 4) CE:               | EU Low Voltage Directive 2014/35/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 and the amending Directive 2015/863/EU of 4 June 2015. 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) 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. For up-to-date information, please see <a href="#">Alpha's REACH SVHC Declaration</a> .  |

### D. Physical & Mechanical Properties

- |                        |                    |
|------------------------|--------------------|
| 1) Temperature Range   | -30 to 105°C       |
| 2) Bend Radius         | 10X Cable Diameter |
| 3) Pull Tension        | 142 Lbs, Maximum   |
| 4) Sunlight Resistance | Yes                |

### E. Electrical Properties

- |                                 |   |
|---------------------------------|---|
| (For Engineering purposes only) |   |
| 1) Voltage Rating               | 300 V <sub>RMS</sub>                            |
| 2) Capacitance                  | 51 pF/ft @1 kHz, Nominal Conductor to Conductor |

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|-----------------------|--------------------------------------|
| 3) Ground Capacitance | 92 pF/ft @1 kHz, Nominal             |
| 4) Inductance         | 0.17 $\mu$ H/ft, Nominal             |
| 5) Conductor DCR      | 4.4 $\Omega$ /1000ft @20°C, Nominal  |
| 6) OA Shield DCR      | 1.83 $\Omega$ /1000ft @20°C, Nominal |

**F. Other**

- |              |                                     |
|--------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) 3280 FT   | 30 x 14 x 12 Continuous length      |
| b) 1640 FT   | 24 x 14 x 12 Continuous length      |
| c) 328 FT    | 12 x 10 x 5 Continuous length       |
| d) 164 FT    | 12 x 10 x 5 Continuous length       |
- [Spool dimensions may vary slightly]*

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