

**ALPHA WIRE**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 16-2774**  
**Page 1 of 2 Pages**

**Issue: 1**  
**Issue Date: 10/28/2016**  
**Effective Date: 12/19/2016**

**A. Construction**

- |                |                                   | <u>Diameters (In)</u> |
|----------------|-----------------------------------|-----------------------|
| 1) Component 1 | 5 X 1 COND                        |                       |
| a) Conductor   | 18 (41/34) AWG Tinned Copper      | 0.043                 |
| b) Insulation  | 0.013" Wall, Nom. PVC, Semi Rigid | 0.069                 |
| (1) Color(s)   |                                   |                       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	RED	5	GREEN
2	WHITE	4	BROWN		

- |                   |   |                |
|-------------------|---|----------------|
| 2) Cable Assembly | 5 Components Cabled   |                |
| a) Twists:        | 5.3 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) Jacket         | 0.070" Wall, Nom., PVC  | 0.332+/- 0.015 |
| a) Color(s)       | BLACK   |                |
| b) Print          | ALPHA WIRE-* P/N 16-2774 5C 18 AWG<br>RU AWM 2661 105C 300V VW-1 OR CRU AWM I/II A/B<br>105C 300V FT1 CE ROHS (SEQ FOOTAGE)<br>* = Factory Code |                |

**B. Applicable Specifications**

- |                      |                                     |                              |
|----------------------|-------------------------------------|------------------------------|
| 1) UL                |                                     |                              |
| a) Component 1       | AWM/STYLE 10002                     | 105°C / 300 V <sub>RMS</sub> |
| b) Overall           | AWM/STYLE 2661                      | 105°C / 300 V <sub>RMS</sub> |
| 2) CSA International | C(RU) AWM I/II A/B FT1              | 105°C / 300 V <sub>RMS</sub> |
| 3) 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. 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 | -40 to 105°C (static), -15 to 90°C (dynamic)             |
| 2) Bend Radius       | 7X Cable Diameter (static), 10X Cable Diameter (dynamic) |
| 3) Pull Tension      | 64 Lbs, Maximum  |

**E. Electrical Properties**

- |                                 |   |
|---------------------------------|---|
| (For Engineering purposes only) |   |
| 1) Voltage Rating               | 300 V <sub>RMS</sub>                            |
| 2) Capacitance                  | 25 pF/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance                   | 0.17 µH/ft, Nominal                             |
| 4) Conductor DCR                | 6.9 Ω/1000ft @20°C, Nominal                     |

**F. Other**

- |                         |                                     |
|-------------------------|-------------------------------------|
| 1) Packaging            | Flange x Traverse x Barrel (inches) |
| a) Bulk (Made-to-order) |                                     |

**This Design is custom, Made-To-Order & once accepted, the order is NON-CANCELLABLE & NON-RETURNABLE.**

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Accepted By: <i>Michael Hoerner</i>	Date: <i>10/31/2016</i>
Company: <i>MILLER ELECTRIC</i>	Title: <i>MECH. ENG.</i>

PROPRIETARY

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