

**ALPHA WIRE  
CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 16-2719**  
**Page 1 of 2 Pages**

**Issue: 1**  
**Issue Date: 10/28/2016**  
**Effective Date: 12/23/2016**

**A. Construction**

**Diameters (In)**

- |                |                                   |       |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 5 X 1 COND                        |       |
| a) Conductor   | 22 (7/30) AWG Tinned Copper       | 0.030 |
| b) Insulation  | 0.010" Wall, Nom. PVC, Semi Rigid | 0.050 |
| (1) Color(s)   |                                   |       |

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

- |                     |  |                |
|---------------------|--|----------------|
| 2) Cable Assembly   | 5 Components Cabled  |                |
| a) Twists:          | 6.0 Twists/foot (min)  |                |
| b) Orientation:     | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER   |                |
| 3) Shield:          | Alum/Mylar Tape, 25% Overlap, Min.   |                |
| a) Foil Direction   | Foil Facing Out  |                |
| b) Drain Wire       | 22 (7/30) AWG Tinned Copper  |                |
| c) Braid            | Tinned Copper, 85% Coverage, Min.  |                |
| 4) Jacket           | 0.035" Wall, Nom., PVC   | 0.239+/- 0.012 |
| a) Color(s)         | BLACK  |                |
| b) Jacket Separator | Tissue Tape, 25% Overlap, Min.   |                |
| c) Print            | ALPHA WIRE-* P/N 16-2719 5C 22 AWG<br>E163869 RU AWM 2661 105C 300V 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> .  |
| 3) 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   | -40 to 105°C(static), -25 to 105°C (dynamic)          |
| 2) Bend Radius         | 8X Cable Diameter(static), 8X Cable Diameter(dynamic) |
| 3) Pull Tension        | 38 Lbs, Maximum                                       |
| 4) Sunlight Resistance | Yes   |

**E. Electrical Properties**

- |                       |   |
|-----------------------|---|
|                       | (For Engineering purposes only)                 |
| 1) Voltage Rating     | 300 V <sub>RMS</sub>                            |
| 2) Capacitance        | 36 pF/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 65 pF/ft @1 kHz, Nominal                        |
| 4) Inductance         | 0.18 µH/ft, Nominal                             |

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- 5) Conductor DCR 16.4  $\Omega$ /1000ft @20°C, Nominal
- 6) OA Shield DCR 3.1  $\Omega$ /1000ft @20°C, Nominal

**F. Other**

- 1) Packaging Flange x Traverse x Barrel (inches)
  - a) Bulk(Made-to-order)
- 2) Notes:
  - a) Insulation and jacket are PVC, not XLPE

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

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

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