

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 16-2719
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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
E163869 RU AWM 2661 105C 300V OR CRU AWM I/II A/B
105C 300V FT1 CE ROHS (SEQ FOOTAGE)
* = Factory Code | |

B. Applicable Specifications

- | | | |
|----------------------|-------------------------------------|------------------------------|
| 1) UL | | |
| a) Component 1 | AWM/STYLE 10002 | 105°C / 300 V _{RMS} |
| b) Overall | AWM/STYLE 2661 | 105°C / 300 V _{RMS} |
| 2) CSA International | C(RU) AWM I/II A/B FT1 | 105°C / 300 V _{RMS} |
| 3) CE: | EU Low Voltage Directive 2014/35/EC | |

C. Environmental Compliance

- | | |
|-------------------------------------|---|
| 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) 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 Alpha's REACH SVHC Declaration . |
| 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 _{RMS} |
| 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 Ω /1000ft @20°C, Nominal
- 6) OA Shield DCR 3.1 Ω /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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