

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 16-2774
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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
RU AWM 2661 105C 300V VW-1 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 . |

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 _{RMS} |
| 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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