

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 19-1068
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Issue: 1
Issue Date: 1/21/2019
Effective Date: 3/18/2019

A. Construction

Diameters (In)

- | | | |
|----------------|--|-------|
| 1) Component 1 | 2 X 1 COND | |
| a) Conductor | 18 (19/30) AWG Bare Copper | 0.050 |
| b) Insulation | 0.032" Wall, Nom. PVC/ 0.006" Wall NYLON | 0.092 |
| (1) Color Code | Alpha Wire Color Code E | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	BROWN		

- | | | |
|-------------------|--|----------------|
| 2) Cable Assembly | 2 Components Cabled | |
| a) Twists: | 3.4 Twists/foot (min) | |
| b) Orientation: | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER | |
| c) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) Shield: | Alum/Mylar Tape, 25% Overlap, Min. | |
| a) Foil Direction | Foil Facing Out | |
| b) Drain Wire | 18 (19/30) AWG Tinned Copper | |
| b) Braid | Tinned Copper, 85% Coverage, Min. | |
| 4) Jacket | 0.050" Wall, Nom., PVC | 0.382+/- 0.022 |
| a) Color(s) | BLACK | |
| b) Print | ALPHA WIRE-* P/N 19-1068 2C 18 AWG
(UL) WTTC 90C DRY/WET 1000V OR
(UL) TC 90C DRY/WET 600V DIR BUR SUN RES
OR MTW 18 AWG --- C(RU) AWM I/II A/B 105C
600V FT1 CE ROHS 1200VDC
* = Factory Code | |

B. Applicable Specifications

- | | | |
|----------------------|-------------------------------------|---|
| 1) UL | | |
| a) Component 1 | Unlisted Conductor | 90°C Dry / 90°C Wet / 600 V _{RMS} |
| | AWM/STYLE 1033 | 90°C / 1200 V _{DC} |
| b) Overall | UL 1277 TC | 90°C Dry / 90°C Wet / 600 V _{RMS} |
| | UL 2277 WTTC | 90°C Dry / 90°C Wet / 1000 V _{RMS} |
| | SUN RES | |
| | UL 1685 Vertical Tray Flame Test | |
| | UL 1063 MTW | 90°C Dry / 60°C Wet / 600 V _{RMS} |
| | DIRECT BURIAL | |
| | OIL RES I | |
| 2) CSA International | C(RU) AWM I/II A/B FT1 | 105°C / 600 V _{RMS} |
| 3) Other | | |
| a) Component 1 | ASTM-B174 Class K | |
| 4) CE: | EU Low Voltage Directive 2014/35/EU | |

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 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 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 90°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 51 Lbs, Maximum |

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4) Sunlight Resistance Yes

5) Direct Burial Yes

E. Electrical Properties (For Engineering purposes only)

1) Voltage Rating 600/1000 V_{RMS}/1200 V_{DC}

2) Capacitance 59 pF/ft @1 kHz, Nominal Conductor to Conductor

3) Ground Capacitance 106 pF/ft @1 kHz, Nominal

4) Characteristic Impedance 41 Ω

5) Inductance 0.19 μ H/ft, Nominal

6) Conductor DCR 5.6 Ω /1000ft @20°C, Nominal

7) OA Shield DCR 2.11 Ω /1000ft @20°C, Nominal

F. Other

1) Packaging Flange x Traverse x Barrel (inches)

a) Bulk(Made-to-order)

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