

**ALPHA WIRE  
CUSTOMER PRODUCT SPECIFICATION**

<b>Part Number: 18-1895</b>	<b>Issue: 1</b>
<b>Page 1 of 2 Pages</b>	<b>Issue Date: 2/27/2019</b>
	<b>Effective Date: 4/15/2019</b>

- A. Construction**
- |                |                                                       |                       |
|----------------|-------------------------------------------------------|-----------------------|
| 1) Component 1 | 3 X 1 COND                                            | <u>Diameters (In)</u> |
| a) Conductor   | 16 (26/30) AWG Bare Copper                            | 0.060                 |
| b) Insulation  | 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON              | 0.102                 |
| (1) Print      | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED |                       |
| (2) Color(s)   |                                                       |                       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK #1	2	BROWN #2	3	RED #3

- |                   |                                                                                                                                                                                                                                           |                |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 2) Cable Assembly | 3 Components Cabled                                                                                                                                                                                                                       |                |
| a) Twists:        | 4.0 Twists/foot (min)                                                                                                                                                                                                                     |                |
| b) Orientation:   | Components to be arranged from OUTSIDE LAYER to INSIDE LAYER                                                                                                                                                                              |                |
| c) Core Wrap      | Clear Mylar Tape, 25% Overlap, Min.                                                                                                                                                                                                       |                |
| 3) Shield:        | Alum/Mylar Tape, 25% Overlap, Min.                                                                                                                                                                                                        |                |
| a) Foil Direction | Foil Facing In                                                                                                                                                                                                                            |                |
| b) Drain Wire     | 16 (26/30) AWG Tinned Copper                                                                                                                                                                                                              |                |
| 4) Jacket         | 0.050" Wall, Nom., PVC                                                                                                                                                                                                                    | 0.327+/- 0.018 |
| a) Color(s)       | BLACK                                                                                                                                                                                                                                     |                |
| b) Print          | ALPHA WIRE-* P/N 18-1895 3C 16 AWG (1.32mm <sup>2</sup> )<br>(UL) TC-ER 90C WET/DRY 600V SUN RES<br>OIL RES I OR MTW 16 AWG OR (UL) PLTC 90C<br>OR CRU AWM I/II A/B 90C 600V FT4<br>CE ROHS (DATE CODE) (SEQ FOOTAGE)<br>* = Factory Code |                |

**B. Applicable Specifications**

- |                      |                                                   |                                                                           |
|----------------------|---------------------------------------------------|---------------------------------------------------------------------------|
| 1) UL                | TC<br>EXPOSED RUN<br>SUN RES<br>PLTC<br>OIL RES I | 90°C Dry / 90°C Wet / 600 V <sub>RMS</sub><br><br>90°C                    |
| 2) CSA International | MTW<br>AWM I/II A/B<br>FT4                        | 90°C Dry / 60°C Wet / 600 V <sub>RMS</sub><br>90°C / 600 V <sub>RMS</sub> |
| 3) CE:               | EU Low Voltage Directive 2014/35/EU               |                                                                           |

**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 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 <u>RoHS C of C</u> . |
| 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 <u>Alpha's REACH SVHC Declaration</u> .                                                                                                           |
| 3) California Proposition 65:       | Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.                                                                                                                                                                                                                               |

**D. Physical & Mechanical Properties**

- |                      |                    |
|----------------------|--------------------|
| 1) Temperature Range | -25 to 90°C        |
| 2) Bend Radius       | 10X Cable Diameter |
| 3) Pull Tension      | 82 Lbs, Maximum    |


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- 4) Sunlight Resistance                      Yes
- E. **Electrical Properties**                      (For Engineering purposes only)
  - 1) Voltage Rating                              600 V<sub>RMS</sub>
  - 2) Capacitance                                 49 pF/ft @1 kHz, Nominal Conductor to Conductor
  - 3) Ground Capacitance                      88 pF/ft @1 kHz, Nominal
  - 4) Inductance                                 0.18 μH/ft, Nominal
  - 5) Conductor DCR                             4.1 Ω/1000ft @20°C, Nominal
  - 6) OA Shield DCR                            4 Ω/1000ft @20°C, Nominal
- F. **Other**
  - 1) Packaging                                      Flange x Traverse x Barrel (inches)
    - a) Bulk(Made-to-order)                      W36-14: 36 x 14 x 12 Only
  - 2) Notes:
    - a) Only use 36" spool per customer request.

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

Accepted By: 	Date: 2/28/19
Company: PCMC	Title: Engineer IV

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