

**ALPHA WIRE**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 80034**  
**Page 1 of 2 Pages**

**Issue: 1**  
**Issue Date: 3/24/2015**  
**Effective Date: 5/19/2015**

**A. Construction**

**Diameters (In)**

- |                |   |       |
|----------------|---|-------|
| 1) Component 1 | 4 X 1 COND  |       |
| a) Conductor   | 18 (41/34) AWG Tinned Copper                          | 0.043 |
| b) Insulation  | 0.010" Wall, Nom. MPPE                                | 0.063 |
| (1) Print      | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED |       |
| (2) Color Code | Alpha Wire Color Code KX                              |       |

Cond	Color	Cond	Color	Cond	Color
1	GREEN/YELLOW	3	BLACK#2		
2	BLACK#1	4	BLACK#3		

- |                   |   |                |
|-------------------|---|----------------|
| 2) Cable Assembly | 4 Components Cabled   |                |
| a) Twists:        | 6.9 Twists/foot (min)   |                |
| b) Core Wrap      | Nonwoven Polyester Tape, 25% Overlap, Min.  |                |
| 3) Jacket         | 0.032" Wall, Nom., Polyurethane, Zero Halogen (ZH)  | 0.221+/- 0.011 |
| a) Color(s)       | SLATE   |                |
| b) Print          | ALPHA WIRE-* P/N 80034 4C 18 AWG<br>RU AWM STYLE 21959 90C 600V SUN RES 60C OIL OR<br>CRU AWM I/II A/B 90C 600V FT2 --- IEC EN 60332-1/2<br>CE ROHS (SEQ FOOTAGE)<br>* = Factory Code |                |

**B. Applicable Specifications**

- |                      |  |                              |
|----------------------|--|------------------------------|
| 1) UL                |  |                              |
| a) Component 1       | AWM/STYLE 11231  | 105°C / 600 V <sub>RMS</sub> |
| b) Overall           | AWM/STYLE 21959  | 90°C / 600 V <sub>RMS</sub>  |
|                      | 60C OIL  |                              |
|                      | SUN RES  |                              |
| 2) CSA International | C(RU) AWM I/II A/B   | 90°C / 600 V <sub>RMS</sub>  |
|                      | FT2  |                              |
| 3) IEC               |  |                              |
| a) Component 1       | EN 60228 Conductors, Class 6   |                              |
| b) Overall           | EN 60754-1 Acid Gas Generation<br>EN 60754-2 Acid Gas Generation<br>EN 60332-1 Flame Behavior<br>EN 60332-2 Flame Behavior |                              |
| 4) CE:               | EU Low Voltage Directive 2006/95/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> .  |

**D. Physical & Mechanical Properties**

- |                        |   |
|------------------------|---|
| 1) Temperature Range   | -50 to 90°C(static), -40 to 80°C (dynamic)            |
| 2) Bend Radius         | 4X Cable Diameter(static), 6X Cable Diameter(dynamic) |
| 3) Pull Tension        | 51 Lbs, Maximum                                       |
| 4) Sunlight Resistance | Yes   |

**E. Electrical Properties**

- |                   |  |
|-------------------|--|
|                   | (For Engineering purposes only)                    |
| 1) Voltage Rating | 600 V <sub>RMS</sub>                               |
| 2) Capacitance    | 18.7 pf/ft @ 1 kHz, Nominal Conductor to Conductor |

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.  
Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

**ALPHA WIRE**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 80034**  
**Page 2 of 2 Pages**

**Issue: 1**  
**Issue Date: 3/24/2015**  
**Effective Date: 5/19/2015**

- 3) Inductance 0.16  $\mu$ H/ft, Nominal
- 4) Conductor DCR 7.1  $\Omega$ /1000ft @20°C, Nominal

**F. Other**

- 1) Packaging Flange x Traverse x Barrel (inches)
  - a) 100 FT 6.5 x 4 x 2.5 Continuous length
  - b) Bulk(Made-to-order)

*[Spool dimensions may vary slightly]*

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.