

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 80164
Page 1 of 2 Pages

Issue: 1
Issue Date: 3/27/2015
Effective Date: 5/22/2015

A. Construction

Diameters (In)

- | | | | |
|----|----------------|---|-------|
| 1) | Component 1 | 4 X 1 COND | |
| | a) Conductor | 10 (259(7x37)/34) AWG Tinned Copper | 0.132 |
| | b) Insulation | 0.016" Wall, Nom. MPPE | 0.164 |
| | (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: | 2.5 Twists/foot (min) | |
| | b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) | Shield | Tinned Copper BRAID Shield, 85% Coverage, Min. | |
| 4) | Jacket | 0.053" Wall, Nom., Polyurethane, Zero Halogen (ZH) | 0.542+/- 0.016 |
| | a) Color(s) | SLATE | |
| | b) Jacket Separator | Tissue Tape, 25% Overlap, Min. | |
| | c) Print | ALPHA WIRE-* P/N 80164 4C 10 AWG
RU AWM STYLE 21959 90C 600V SUN RES 60C OIL OR
CRU AWM I/II A/B 90C 600V FT2 --- IEC EN 60332-1/2
CE ROHS (SEQ FOOTAGE)
* = Factory Code | |

B. Applicable Specifications

- | | | | |
|----|-------------------|--|------------------------------|
| 1) | UL | | |
| | a) Component 1 | AWM/STYLE 11231 | 105°C / 600 V _{RMS} |
| | b) Overall | AWM/STYLE 21959
60C OIL
SUN RES | 90°C / 600 V _{RMS} |
| 2) | CSA International | C(RU) AWM I/II A/B
FT2 | 90°C / 600 V _{RMS} |
| 3) | IEC | | |
| | a) Component 1 | EN 60228 Conductors, Class 6 | |
| | b) Overall | EN 60754-1 Acid Gas Generation
EN 60754-2 Acid Gas Generation
EN 60332-1 Flame Behavior
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):
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 | -50 to 90°C(static), -40 to 80°C (dynamic) |
| 2) | Bend Radius | 4X Cable Diameter(static), 6X Cable Diameter(dynamic) |
| 3) | Pull Tension | 337 Lbs, Maximum |
| 4) | Sunlight Resistance | Yes |

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: 80164
Page 2 of 2 Pages

Issue: 1
Issue Date: 3/27/2015
Effective Date: 5/22/2015

- E. Electrical Properties** (For Engineering purposes only)
- 1) Voltage Rating 600 V_{RMS}
 - 2) Capacitance 38 pf/ft @1 kHz, Nominal Conductor to Conductor
 - 3) Ground Capacitance 68 pf/ft @1 kHz, Nominal
 - 4) Inductance 0.14 μ H/ft, Nominal
 - 5) Conductor DCR 1.09 Ω /1000ft @20°C, Nominal
 - 6) OA Shield DCR 1.53 Ω /1000ft @20°C, Nominal
- F. Other**
- 1) Packaging Flange x Traverse x Barrel (inches)
 - a) 100 FT 16 x 11 x 8 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.