

**ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 80142
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Issue: 1
Issue Date: 3/27/2015
Effective Date: 5/22/2015

A. Construction

Diameters (In)

- | | | |
|----------------|---|-------|
| 1) Component 1 | 3 X 1 COND | |
| a) Conductor | 16 (65/34) AWG Tinned Copper | 0.056 |
| b) Insulation | 0.012" Wall, Nom. MPPE | 0.080 |
| (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 | 2 | BLACK#1 | 3 | BLACK#2 |
-
- | | | |
|---------------------|---|----------------|
| 2) Cable Assembly | 3 Components Cabled | |
| a) Twists: | 6.0 Twists/foot (min) | |
| b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) Shield | Tinned Copper BRAID Shield, 85% Coverage, Min. | |
| 4) Jacket | 0.032" Wall, Nom., Polyurethane, Zero Halogen (ZH) | 0.269+/- 0.011 |
| a) Color(s) | SLATE | |
| b) Jacket Separator | Tissue Tape, 25% Overlap, Min. | |
| c) Print | ALPHA WIRE-* P/N 80142 3C 16 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 | 66 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |

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E. Electrical Properties

(For Engineering purposes only)

- | | |
|-----------------------|---|
| 1) Voltage Rating | 600 V _{RMS} |
| 2) Capacitance | 32 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 58 pf/ft @1 kHz, Nominal |
| 4) Inductance | 0.16 μH/ft, Nominal |
| 5) Conductor DCR | 4.4 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) 100 FT | 12 x 4.5 x 3.5 Continuous length |
| b) Bulk(Made-to-order) | |

[Spool dimensions may vary slightly]

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