## ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 80159 Issue: 1

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Effective Date: 5/22/2015

A. Construction <u>Diameters (In)</u>

1) Component 1 4 X 1 COND

a) Conductor
 b) Insulation
 (1) Print
 12 (168(7x24)/34) AWG Tinned Copper
 0.104
 0.015" Wall, Nom. MPPE
 0.134
 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: 3.2 Twists/foot (min)

b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min. Shield Tinned Copper BRAID Shield,85% Coverage, Min.

4) Jacket 0.032" Wall, Nom., Polyurethane, Zero Halogen (ZH) 0.421+/- 0.013

a) Color(s) SLATE

b) Jacket Separator
 c) Print
 Tissue Tape, 25% Overlap, Min.
 ALPHA WIRE-\* P/N 80159 4C 12 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  $105^{\circ}$ C /  $600 V_{RMS}$  b) Overall AWM/STYLE 21959  $90^{\circ}$ C /  $600 V_{RMS}$ 

60C OIL SUN RES

2) CSA International C(RU) AWM I/II A/B

90°C / 600 V<sub>RMS</sub>

FT2

3) IEC

4) CE:

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

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 218 Lbs, Maximum

4) Sunlight Resistance Yes

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(For Engineering purposes only)

E. Electrical Properties

Voltage Rating 600 V<sub>RMS</sub>

2) Capacitance 35 pf/ft @1 kHz, Nominal Conductor to Conductor

3) Ground Capacitance 63 pf/ft @1 kHz, Nominal 1nductance 0.15 µH/ft, Nominal

5) Conductor DCR
 6) OA Shield DCR
 1.76 Ω/1000ft @20°C, Nominal
 2.5 Ω/1000ft @20°C, Nominal

F. Other

1) Packaging Flange x Traverse x Barrel (inches) a) 100 FT 12 x 10 x 5 Continuous length

b) Bulk(Made-to-order)

[Spool dimensions may vary slightly]

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