ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 80136 Issue:

Page 1 of 2 Pages 3/27/2015 Issue Date: **Effective Date:** 5/22/2015

A. Construction Diameters (In)

7 X 1 COND 1) Component 1

18 (41/34) AWG Tinned Copper Conductor 0.043 Insulation 0.010" Wall, Nom. MPPE 0.063 ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND (1) Print

INVERTED

Alpha Wire Color Code KX (2) Color Code

Cond	Color	Cond	Color	Cond	Color
1	GREEN/YELLOW	4	BLACK#3	7	BLACK#6
2	BLACK#1	5	BLACK#4		
3	BLACK#2	6	BLACK#5		

Cable Assembly 7 Components Cabled Twists: 5.3 Twists/foot (min)

b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min. 3) Shield Tinned Copper BRAID Shield.85% Coverage, Min.

Jacket 0.032" Wall, Nom., Polyurethane, Zero Halogen (ZH) 0.286+/- 0.013

Color(s) SLATE a)

Jacket Separator Tissue Tape, 25% Overlap, Min. b)

Print ALPHA WIRE-* P/N 80136 7C 18 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

ROHS (SEQ FOOTAGE) CE

* = Factory Code

B. Applicable Specifications

UL

AWM/STYLE 11231 105°C / 600 V_{RMS} Component 1 90°C / 600 V_{RMS} Overall AWM/STYLE 21959 60C OIL

SUN RES

CSA International C(RU) AWM I/II A/B 90°C / 600 V_{RMS}

FT2

IEC

EN 60228 Conductors, Class 6 Component 1 a) Overall EN 60754-1 Acid Gas Generation b) 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

 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.

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

Temperature Range -50 to 90°C(static), -40 to 80°C (dynamic) 1)

Bend Radius 4X Cable Diameter(static), 6X Cable Diameter(dynamic) 2)

Pull Tension 95 Lbs, Maximum

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: 80136 Issue: 1

Page 2 of 2 Pages Issue Date: 3/27/2015 Effective Date: 5/22/2015

(For Engineering purposes only)

E. Electrical Properties

Voltage Rating 600 V_{RMS}

2) Capacitance 31 pf/ft @1 kHz, Nominal Conductor to Conductor

3) Ground Capacitance 56 pf/ft @1 kHz, Nominal 1nductance 0.16 µH/ft, Nominal

5) Conductor DCR 7.1 Ω/1000ft @20°C, Nominal 6) OA Shield DCR 4.3 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]

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.