ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 80045		**Issue:**	**1**
Page 1 of 2 Pages		**Issue Date:**	**3/24/2015**
		Effective Date:	**5/19/2015**

A. Construction — **Diameters (In)**

1) Component 1 — 7 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	4	BLACK#3	7	BLACK#6
2	BLACK#1	5	BLACK#4		
3	BLACK#2	6	BLACK#5		

2) Cable Assembly — 7 Components Cabled
   a) Twists: — 4.4 Twists/foot (min)
   b) Core Wrap — Nonwoven Polyester Tape, 25% Overlap, Min.
3) Jacket — 0.032" Wall, Nom.,Polyurethane, Zero Halogen (ZH) — 0.310+/- 0.013
   a) Color(s) — SLATE
   b) Print — ALPHA WIRE-* P/N 80045 7C 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 — 90°C / 600 V_{RMS}
   60C OIL
   SUN RES
2) CSA International — C(RU) AWM I/II A/B — 90°C / 600 V_{RMS}
   FT2
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 — 142 Lbs, Maximum
4) Sunlight Resistance — Yes

E. Electrical Properties — (For Engineering purposes only)

1) Voltage Rating — 600 V_{RMS}

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2)	Capacitance	19.3 pf/ft @1 kHz, Nominal Conductor to Conductor
3)	Inductance	0.16 µH/ft, Nominal
4)	Conductor DCR	4.5 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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