

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 80035
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Issue: 1
Issue Date: 3/24/2015
Effective Date: 5/19/2015

A. Construction

Diameters (In)

- 1) Component 1 5 X 1 COND
- a) Conductor 18 (41/34) AWG Tinned Copper 0.043
- b) Insulation 0.010" Wall, Nom. MPPE 0.063
- (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	5	BLACK#4
2	BLACK#1	4	BLACK#3		

- 2) Cable Assembly 5 Components Cabled
- a) Twists: 6.0 Twists/foot (min)
- b) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.
- 3) Jacket 0.032" Wall, Nom., Polyurethane, Zero Halogen (ZH) 0.239+/- 0.012
- a) Color(s) SLATE
- b) Print ALPHA WIRE-* P/N 80035 5C 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
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
EU Low Voltage Directive 2006/95/EC
- 4) CE:

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 64 Lbs, Maximum
- 4) Sunlight Resistance Yes

E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating 600 V_{RMS}
- 2) Capacitance 18.7 pf/ft @1 kHz, Nominal Conductor to Conductor

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- 3) Inductance 0.16 μ H/ft, Nominal
- 4) Conductor DCR 7.1 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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