

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 80045
Page 1 of 2 Pages

Issue: 1
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

- 1) Voltage Rating (For Engineering purposes only)
600 V_{RMS}

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- | | |
|------------------|---|
| 2) Capacitance | 19.3 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance | 0.16 μ H/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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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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