

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: 80040
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Issue: 1
Issue Date: 3/24/2015
Effective Date: 5/19/2015

A. Construction

Diameters (In)

- | | | |
|----------------|---|-------|
| 1) Component 1 | 25 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	10	BLACK#9	19	BLACK#18
2	BLACK#1	11	BLACK#10	20	BLACK#19
3	BLACK#2	12	BLACK#11	21	BLACK#20
4	BLACK#3	13	BLACK#12	22	BLACK#21
5	BLACK#4	14	BLACK#13	23	BLACK#22
6	BLACK#5	15	BLACK#14	24	BLACK#23
7	BLACK#6	16	BLACK#15	25	BLACK#24
8	BLACK#7	17	BLACK#16		
9	BLACK#8	18	BLACK#17		

- | | | |
|-------------------|--|----------------|
| 2) Cable Assembly | 25 Components Cabled | |
| a) Twists: | 2.7 Twists/foot (min) | |
| b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) Jacket | 0.032" Wall, Nom., Polyurethane, Zero Halogen (ZH) | 0.446+/- 0.020 |
| a) Color(s) | SLATE | |
| b) Print | ALPHA WIRE-* P/N 80040 25C 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 | |
| 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) |

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- 3) Pull Tension 319 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
 - 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 10 x 5 Continuous length
 - b) Bulk(Made-to-order)
- [Spool dimensions may vary slightly]*

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