

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 45163
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Issue: 15
Issue Date: 1/19/2015
Effective Date: 1/31/2015

A. Construction

Diameters (In)

- | | | | |
|----|----------------|------------------------------|-------|
| 1) | Component 1 | 3 X 1 COND | |
| | a) Conductor | 18 (16/30) AWG Tinned Copper | 0.047 |
| | b) Insulation | 0.016" Wall, Nom. TPE | 0.079 |
| | (1) Color Code | Alpha Wire Color Code D | |

| Cond | Color | Cond | Color |
|------|-------|------|-------|
| 1 | BLACK | 2 | RED |
| 3 | WHITE | | |

- | | | | |
|----|----------------|--|--------------------|
| 2) | Cable Assembly | 3 Components Cabled | |
| | a) Twists: | 6.0 Twists/foot (min) | |
| | b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) | Shield: | A/P/A Tape, 25% Overlap, Min. | |
| | a) Drain Wire | 18 (16/30) AWG Tinned Copper | |
| | b) Braid | Tinned Copper, 70% Coverage, Min. | |
| 4) | Jacket | 0.045" Wall, Nom., TPE | 0.292 (0.303 Max.) |
| | a) Color(s) | Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White | |
| | b) Ripcord | 1 End 810 Denier Nylon | |
| | c) Print | ALPHA WIRE-* P/N 45163 3C 18 AWG XTRAGUARD(R) 4 (UL) TYPE PLTC 105C SUN RES OR AWM 20237/21918 125C 300 V OR CRU AWM I/II A/B 125C 300 V FT1 P-07-KA140023-MSHA CE ROHS (SEQ FOOTAGE) * = Factory Code | |

B. Applicable Specifications

- | | | | |
|----|-------------------|---|------------------------------|
| 1) | UL | AWM/STYLE 20237 | 125°C / 300 V _{RMS} |
| | | PLTC | 105°C |
| | | AWM/STYLE 21918 | 125°C / 300 V _{RMS} |
| | | SUN RES | |
| 2) | CSA International | C(RU) AWM I/II A/B FT1 | 125°C / 300 V _{RMS} |
| | | SUN RES (Black only) | |
| 3) | Other | PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED | |
| 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) | California Proposition 65: | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. |

D. Physical & Mechanical Properties

- | | | |
|----|---------------------|--------------------|
| 1) | Temperature Range | -50 to 125°C |
| 2) | Bend Radius | 10X Cable Diameter |
| 3) | Pull Tension | 54 Lbs, Maximum |
| 4) | Sunlight Resistance | Yes |

E. Electrical Properties

- | | | |
|---------------------------------|--------------------|---|
| (For Engineering purposes only) | | |
| 1) | Voltage Rating | 300 V _{RMS} |
| 2) | Capacitance | 26 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) | Ground Capacitance | 47 pf/ft @1 kHz, Nominal |
| 4) | Inductance | 0.18 µH/ft, Nominal |
| 5) | Conductor DCR | 7.2 Ω/1000ft @20°C, Nominal |
| 6) | OA Shield DCR | 2.7 Ω/1000ft @20°C, Nominal |

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F. Other

- 1) Packaging Flange x Traverse x Barrel (inches)
 - a) Bulk(Made-to-order)
- 2) Notes:
 - a) Print legend will contain CSA SUN RES on black cables only.

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