

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: 45104
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Issue: 15
Issue Date: 1/19/2015
Effective Date: 1/31/2015

A. Construction

Diameters (In)

- | | | |
|----------------|-----------------------------|-------|
| 1) Component 1 | 4 X 1 COND | |
| a) Conductor | 22 (7/30) AWG Tinned Copper | 0.030 |
| b) Insulation | 0.016" Wall, Nom. TPE | 0.062 |
| (1) Color Code | Alpha Wire Color Code E | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	RED		
2	BROWN	4	ORANGE		

- | | | |
|-------------------|---|--------------------|
| 2) Cable Assembly | 4 Components Cabled | |
| a) Twists: | 6.9 Twists/foot (min) | |
| b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) Shield: | A/P/A Tape, 25% Overlap, Min. | |
| a) Drain Wire | 22 (7/30) AWG Tinned Copper | |
| b) Braid | Tinned Copper, 70% Coverage, Min. | |
| 4) Jacket | 0.045" Wall, Nom., TPE | 0.272 (0.284 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 45104 4C 22 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 | 31 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |

E. Electrical Properties

- | | |
|-----------------------|---|
| | (For Engineering purposes only) |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 20.2 pF/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 36 pF/ft @1 kHz, Nominal |
| 4) Inductance | 0.2 µH/ft, Nominal |
| 5) Conductor DCR | 16.4 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 3.9 Ω/1000ft @20°C, Nominal |

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F. Other

- | | |
|------------------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) 1000 FT | 12 x 12 x 3.5 Continuous length |
| b) 500 FT | 12 x 6 x 3.5 Continuous length |
| c) Bulk(Made-to-order) | |
- [Spool dimensions may vary slightly]*
- 2) Notes:
- a) Print legend will contain CSA SUN RES on black cables only.

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