

# ALPHA WIRE

## CUSTOMER PRODUCT SPECIFICATION

**Part Number: B963094**  
**Page 1 of 2 Pages**

**Issue: 1**  
**Issue Date: 9/10/2010**  
**Effective Date: 11/5/2010**

### A. Construction

### Diameters (mm)

- 1) Component 1 9 X 1 PAIR
- a) Conductor 24 (7/32) AWG TC
- b) Insulation 0.25 Wall, Nom. PVC, Semi Rigid
- (1) Color Code Alpha Wire Color Code B

0.61  
1.12

| Pair | Color       | Pair | Color        | Pair | Color        |
|------|-------------|------|--------------|------|--------------|
| 1    | WHITE-BLACK | 4    | WHITE-ORANGE | 7    | WHITE-BLUE   |
| 2    | WHITE-BROWN | 5    | WHITE-YELLOW | 8    | WHITE-VIOLET |
| 3    | WHITE-RED   | 6    | WHITE-GREEN  | 9    | WHITE-SLATE  |

- c) Pair 2/Cond Cabled Together
  - (1) Twists: 31.5 Twists/meter (min)
  - 2) Cable Assembly 9 Components Cabled
  - a) Twists: 13.1 Twists/meter (min)
  - b) Core Wrap Clear Mylar Tape, 25% Overlap, Min.
  - 3) Shield: A/P/A Tape, 25% Overlap, Min.
  - a) Drain Wire 24 (7/32) AWG TC
  - b) Braid TC, 70% Coverage, Min.
  - 4) Jacket 0.81 Wall, Nom., PVC 9.12 (9.62 Max.)
  - a) Color(s) GREY
  - b) Ripcord 1 End 810 Denier Nylon
  - c) Print ALPHA WIRE-\* P/N B963094
- 0.23MM2 (24AWG) (UL) TYPE CM 105C OR AWM 2464  
VW-1 CE ROHS (SEQ METERS)  
\* = Factory Code

### B. Applicable Specifications

- 1) UL
  - a) Component 1 AWM/STYLE 10002 105°C / 300 V<sub>RMS</sub>
  - b) Overall AWM/STYLE 2464 80°C / 300 V<sub>RMS</sub>  
CM 105°C  
VW-1
- 2) IEC EN 60332-1 Flame Behavior  
EN 60332-2 Flame Behavior
- 3) CE: LVD 73/23/EEC Amendment 93/68/EEC

### C. Environmental Compliance

- 1) EU Directive 2002/95/EC(RoHS):  
All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.
- 2) REACH Regulation (EC 1907/2006):  
This product does not contain any of the substances listed on the European Union REACH Substance of Very High Concern (SVHC) candidate list, dated 30 March 2010, in excess of a concentration of 0.1% weight/weight.

### D. Physical & Mechanical Properties

- 1) Temperature Range -30 to 105°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 72 Lbs, Maximum
- 4) Sunlight Resistance Yes

### E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating 300 V<sub>RMS</sub>
  - 2) Mutual Capacitance 75.768 pf/m @1 kHz, Nominal
  - 3) Ground Capacitance 137.76 pf/m @1 kHz, Nominal
  - 4) Characteristic Impedance 82 Ω

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- |                  |                                   |
|------------------|-----------------------------------|
| 5) Inductance    | 0.6232 $\mu$ H/m, Nominal         |
| 6) Conductor DCR | 85.28 $\Omega$ /Km @20°C, Nominal |
| 7) OA Shield DCR | 9.84 $\Omega$ /Km @20°C, Nominal  |

**F. Other**

- |              |                                     |
|--------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) 3280 FT   | 30 x 14 x 12 Continuous length      |
| b) 1640 FT   | 24 x 14 x 12 Continuous length      |
| c) 328 FT    | 12 x 10 x 5 Continuous length       |
| d) 164 FT    | 12 x 10 x 5 Continuous length       |
- [Spool dimensions may vary slightly]*

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