

**ALPHA WIRE**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: B964094**  
**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 22 (7/30) AWG TC 0.76
  - b) Insulation 0.25 Wall, Nom. PVC, Semi Rigid 1.27
  - (1) Color Code Alpha Wire Color Code B

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: 26.2 Twists/meter (min)
  - 2) Cable Assembly 9 Components Cabled
  - a) Twists: 11.2 Twists/meter (min)
  - b) Core Wrap Clear Mylar Tape, 25% Overlap, Min.
  - 3) Shield: A/P/A Tape, 25% Overlap, Min.
  - a) Drain Wire 22 (7/30) AWG TC
  - b) Braid TC, 70% Coverage, Min.
  - 4) Jacket 0.81 Wall, Nom., PVC 10.03 (10.54 Max.)
  - a) Color(s) GREY
  - b) Ripcord 1 End 810 Denier Nylon
  - c) Print ALPHA WIRE-\* P/N B964094
- 0.35MM2 (22AWG) (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 111 Lbs, Maximum
- 4) Sunlight Resistance Yes

**E. Electrical Properties** (For Engineering purposes only)

- 1) Voltage Rating 300 V<sub>RMS</sub>
- 2) Mutual Capacitance 81.672 pf/m @1 kHz, Nominal
- 3) Ground Capacitance 147.6 pf/m @1 kHz, Nominal
- 4) Characteristic Impedance 77 Ω

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- |                  |                                    |
|------------------|------------------------------------|
| 5) Inductance    | 0.5904 $\mu$ H/m, Nominal          |
| 6) Conductor DCR | 54.776 $\Omega$ /Km @20°C, Nominal |
| 7) OA Shield DCR | 7.38 $\Omega$ /Km @20°C, Nominal   |

**F. Other**

- |              |                                     |
|--------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) 3280 FT   | 36 x 14 x 12 Continuous length      |
| b) 1640 FT   | 30 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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