

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

**Part Number: B961044**  
**Page 1 of 2 Pages**

**Issue: 1**  
**Issue Date: 9/8/2010**  
**Effective Date: 11/3/2010**

- |                        |                                 |                       |
|------------------------|---------------------------------|-----------------------|
| <b>A. Construction</b> |                                 | <b>Diameters (mm)</b> |
| 1) Component 1         | 4 X 1 PAIR                      |                       |
| a) Conductor           | 28 (7/36) AWG TC                | 0.38                  |
| b) Insulation          | 0.25 Wall, Nom. PVC, Semi Rigid | 0.89                  |
| (1) Color Code         | Alpha Wire Color Code B         |                       |

Pair	Color	Pair	Color	Pair	Color
1	WHITE-BLACK	3	WHITE-RED		
2	WHITE-BROWN	4	WHITE-ORANGE		

- |                   |   |                  |
|-------------------|---|------------------|
| c) Pair           | 2/Cond Cabled Together                        |                  |
| (1) Twists:       | 39.4 Twists/meter (min)                       |                  |
| 2) Cable Assembly | 4 Components Cabled                           |                  |
| a) Twists:        | 26.2 Twists/meter (min)                       |                  |
| b) Core Wrap      | Clear Mylar Tape, 25% Overlap, Min.           |                  |
| 3) Shield:        | A/P/A Tape, 25% Overlap, Min.                 |                  |
| a) Drain Wire     | 28 (7/36) AWG TC                              |                  |
| b) Braid          | TC, 70% Coverage, Min.                        |                  |
| 4) Jacket         | 0.81 Wall, Nom., PVC                          | 5.94 (6.31 Max.) |
| a) Color(s)       | GREY  |                  |
| b) Ripcord        | 1 End 810 Denier Nylon                        |                  |
| c) Print          | ALPHA WIRE-* P/N B961044                      |                  |
|                   | 0.09MM2 (28AWG) (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 15.7 Lbs, Maximum
- 4) Sunlight Resistance Yes

**E. Electrical Properties**

- (For Engineering purposes only)
- 1) Voltage Rating 300 V<sub>RMS</sub>
  - 2) Mutual Capacitance 68.88 pf/m @1 kHz, Nominal
  - 3) Ground Capacitance 124.64 pf/m @1 kHz, Nominal
  - 4) Characteristic Impedance 90 Ω
  - 5) Inductance 0.7216 μH/m, Nominal

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- 6) Conductor DCR 219.76  $\Omega$ /Km @20°C, Nominal
- 7) OA Shield DCR 15.088  $\Omega$ /Km @20°C, Nominal

**F. Other**

- 1) Packaging Flange x Traverse x Barrel (inches)
    - a) 3280 FT 24 x 14 x 12 Continuous length
    - b) 1640 FT 16 x 11 x 8 Continuous length
    - c) 328 FT 12 x 4.5 x 3.5 Continuous length
    - d) 164 FT 10 x 4 x 3.5 Continuous length
- [Spool dimensions may vary slightly]*

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