

# ALPHA WIRE

## CUSTOMER PRODUCT SPECIFICATION

**Part Number: B951033**  
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**Issue: 2**  
**Issue Date: 1/4/2013**  
**Effective Date: 1/18/2013**

### A. Construction

### Diameters (mm)

- 1) Component 1 3 X 1 COND
- a) Conductor 28 (7/36) AWG TC
- b) Insulation 0.25 Wall, Nom. PVC, Semi Rigid
- (1) Color Code Alpha Wire Color Code E

0.38  
0.89

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

- 2) Cable Assembly 3 Components Cabled
- a) Twists: 45.0 Twists/meter (min)
- b) Core Wrap Clear Mylar Tape, 25% Overlap, Min.
- 3) Shield TC BRAID Shield, 85% Coverage, Min.
- a) Drain Wire 28 (7/36) AWG TC
- 4) Jacket 0.81 Wall, Nom., PVC 4.19 (4.44 Max.)
- a) Color(s) GREY
- b) Ripcord 1 End 810 Denier Nylon
- c) Print ALPHA WIRE-\* P/N B951033

0.09MM2 (28AWG) (UL) TYPE CM 105C OR AWM 2464  
VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4 CE  
ROHS (SEQ METERS)  
\* = Factory Code

[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

### 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) CSA International CMG 105°C
- FT4
- 3) IEC EN 60332-1 Flame Behavior
- EN 60332-2 Flame Behavior
- 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) REACH Regulation (EC 1907/2006):  
This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see [Alpha's REACH SVHC Declaration](#).

### D. Physical & Mechanical Properties

- 1) Temperature Range -30 to 105°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 7.5 Lbs, Maximum
- 4) Sunlight Resistance Yes

### E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating 300 V<sub>RMS</sub>
- 2) Capacitance 82 pf/m @ 1 kHz, Nominal Conductor to Conductor
- 3) Ground Capacitance 147.6 pf/m @ 1 kHz, Nominal
- 4) Inductance 0.7216 µH/m, Nominal

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- 5) Conductor DCR 216.48  $\Omega$ /Km @20°C, Nominal
- 6) OA Shield DCR 35.424  $\Omega$ /Km @20°C, Nominal

**F. Other**

- 1) Packaging Flange x Traverse x Barrel (inches)
    - a) 3280 FT 16 x 11 x 8 Continuous length
    - b) 1640 FT 12 x 10 x 5 Continuous length
    - c) 328 FT 6.5 x 6 x 1.9 Continuous length
    - d) 164 FT 6.5 x 4 x 2.5 Continuous length
- [Spool dimensions may vary slightly]*

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