

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_{RMS}
 - b) Overall AWM/STYLE 2464 80°C / 300 V_{RMS}
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_{RMS}
 - 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 μ H/m, Nominal |
| 6) Conductor DCR | 85.28 Ω /Km @20°C, Nominal |
| 7) OA Shield DCR | 9.84 Ω /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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