

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: B964114
Page 1 of 2 Pages

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

A. Construction

Diameters (mm)

- 1) Component 1 11 X 1 PAIR
 - a) Conductor 22 (7/30) AWG TC
 - b) Insulation 0.25 Wall, Nom. PVC, Semi Rigid
 - (1) Color Code Alpha Wire Color Code B

0.76
1.27

Pair	Color	Pair	Color	Pair	Color
1	WHITE-BLACK	5	WHITE-YELLOW	9	WHITE-SLATE
2	WHITE-BROWN	6	WHITE-GREEN	10	BLACK-BROWN
3	WHITE-RED	7	WHITE-BLUE	11	BLACK-RED
4	WHITE-ORANGE	8	WHITE-VIOLET		

- c) Pair 2/Cond Cabled Together
 - (1) Twists: 26.2 Twists/meter (min)
 - 2) Cable Assembly 11 Components Cabled
 - a) Twists: 10.5 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 10.74 (11.29 Max.)
 - a) Color(s) GREY
 - b) Ripcord 1 End 810 Denier Nylon
 - c) Print ALPHA WIRE-* P/N B964114
- 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_{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 133 Lbs, Maximum
- 4) Sunlight Resistance Yes

E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating 300 V_{RMS}
- 2) Mutual Capacitance 81.672 pf/m @1 kHz, Nominal
- 3) Ground Capacitance 147.6 pf/m @1 kHz, Nominal

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- 4) Characteristic Impedance 77 Ω
- 5) Inductance 0.5904 $\mu\text{H/m}$, Nominal
- 6) Conductor DCR 54.776 Ω/Km @20°C, Nominal
- 7) OA Shield DCR 7.8392 Ω/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 16 x 11 x 8 Continuous length
 - d) 164 FT 12 x 10 x 5 Continuous length
- [Spool dimensions may vary slightly]*

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