

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: B964054
Page 1 of 2 Pages

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

A. Construction

Diameters (mm)

- 1) Component 1 5 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	3	WHITE-RED	5	WHITE-YELLOW
2	WHITE-BROWN	4	WHITE-ORANGE		

- c) Pair 2/Cond Cabled Together
- (1) Twists: 26.2 Twists/meter (min)
- 2) Cable Assembly 5 Components Cabled
- a) Twists: 15.7 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 8.08 (8.49 Max.)
- a) Color(s) GREY
- b) Ripcord 1 End 810 Denier Nylon
- c) Print ALPHA WIRE-* P/N B964054
- 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 66 Lbs, Maximum
- 4) Sunlight Resistance Yes

E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating 300 V_{RMS}
- 2) Mutual Capacitance 88.56 pf/m @1 kHz, Nominal
- 3) Ground Capacitance 160.72 pf/m @1 kHz, Nominal
- 4) Characteristic Impedance 70 Ω
- 5) Inductance 0.5904 μH/m, Nominal

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: B964054
Page 2 of 2 Pages

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

- 6) Conductor DCR 54.776 Ω /Km @20°C, Nominal
- 7) OA Shield DCR 8.856 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 20 x 11 x 8 Continuous length
 - c) 328 FT 12 x 6 x 3.5 Continuous length
 - d) 164 FT 12 x 4.5 x 3.5 Continuous length
- [Spool dimensions may vary slightly]*

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.