

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: B954104
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Issue: 1
Issue Date: 8/23/2010
Effective Date: 10/18/2010

A. Construction

Diameters (mm)

- 1) Component 1 10 X 1 COND
 - a) Conductor 22 (7/30) AWG TC
 - b) Insulation 0.25 Wall, Nom. PVC, Semi Rigid
 - (1) Color Code Alpha Wire Color Code E

0.76
 1.27

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

- 2) Cable Assembly 10 Components Cabled
 - a) Twists: 17.5 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 7.49 (7.87 Max.)
 - a) Color(s) GREY
 - b) Ripcord 1 End 810 Denier Nylon
 - c) Print ALPHA WIRE-* P/N B954104
- 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}
- 2) IEC
 - CM 105°C
 - VW-1
 - 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 65 Lbs, Maximum
- 4) Sunlight Resistance Yes

E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating 300 V_{RMS}
- 2) Capacitance 118.08 pf/m @1 kHz, Nominal Conductor to Conductor
- 3) Ground Capacitance 213.2 pf/m @1 kHz, Nominal
- 4) Inductance 0.5904 µH/m, Nominal
- 5) Conductor DCR 54.448 Ω/Km @20°C, Nominal

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6) 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	20 x 11 x 8 Continuous length
c) 328 FT	12 x 6 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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