

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: B954403
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Issue: 1
Issue Date: 8/23/2010
Effective Date: 10/18/2010

A. Construction

Diameters (mm)

- 1) Component 1 40 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	15	WHITE/YELLOW	29	WHITE/BROWN/ORANGE
2	BROWN	16	WHITE/GREEN	30	WHITE/BROWN/YELLOW
3	RED	17	WHITE/BLUE	31	WHITE/BROWN/GREEN
4	ORANGE	18	WHITE/VIOLET	32	WHITE/BROWN/BLUE
5	YELLOW	19	WHITE/SLATE	33	WHITE/BROWN/VIOLET
6	GREEN	20	WHITE/BLACK/BROWN	34	WHITE/BROWN/SLATE
7	BLUE	21	WHITE/BLACK/RED	35	WHITE/RED/ORANGE
8	VIOLET	22	WHITE/BLACK/ORANGE	36	WHITE/RED/YELLOW
9	SLATE	23	WHITE/BLACK/YELLOW	37	WHITE/RED/GREEN
10	WHITE	24	WHITE/BLACK/GREEN	38	WHITE/RED/BLUE
11	WHITE/BLACK	25	WHITE/BLACK/BLUE	39	WHITE/RED/VIOLET
12	WHITE/BROWN	26	WHITE/BLACK/VIOLET	40	WHITE/RED/SLATE
13	WHITE/RED	27	WHITE/BLACK/SLATE		
14	WHITE/ORANGE	28	WHITE/BROWN/RED		

- 2) Cable Assembly 40 Components Cabled
 - a) Twists: 9.3 Twists/meter (min)
 - b) Core Wrap Clear Mylar Tape, 25% Overlap, Min.
 - 3) Shield TC BRAID Shield, 85% Coverage, Min.
 - a) Drain Wire 22 (7/30) AWG TC
 - 4) Jacket 0.81 Wall, Nom., PVC 11.56 (12.15 Max.)
 - a) Color(s) GREY
 - b) Ripcord 1 End 810 Denier Nylon
 - c) Print ALPHA WIRE-* P/N B954403
- 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 234 Lbs, Maximum
- 4) Sunlight Resistance Yes

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- 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 μ H/m, Nominal
 - 5) Conductor DCR 54.448 Ω /Km @20°C, Nominal
 - 6) OA Shield DCR 7.872 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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