

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: B963194
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Issue: 1
Issue Date: 9/10/2010
Effective Date: 11/5/2010

A. Construction

Diameters (mm)

- | | | |
|----------------|---------------------------------|------|
| 1) Component 1 | 19 X 1 PAIR | |
| a) Conductor | 24 (7/32) AWG TC | 0.61 |
| b) Insulation | 0.25 Wall, Nom. PVC, Semi Rigid | 1.12 |
| (1) Color Code | Alpha Wire Color Code B | |

Pair	Color	Pair	Color	Pair	Color
1	WHITE-BLACK	8	WHITE-VIOLET	15	BLACK-BLUE
2	WHITE-BROWN	9	WHITE-SLATE	16	BLACK-VIOLET
3	WHITE-RED	10	BLACK-BROWN	17	BLACK-SLATE
4	WHITE-ORANGE	11	BLACK-RED	18	BROWN-RED
5	WHITE-YELLOW	12	BLACK-ORANGE	19	BROWN-ORANGE
6	WHITE-GREEN	13	BLACK-YELLOW		
7	WHITE-BLUE	14	BLACK-GREEN		

- | | | |
|-------------------|---|--------------------|
| c) Pair | 2/Cond Cabled Together | |
| (1) Twists: | 31.5 Twists/meter (min) | |
| 2) Cable Assembly | 19 Components Cabled | |
| a) Twists: | 9.3 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 | 11.58 (12.22 Max.) |
| a) Color(s) | GREY | |
| b) Ripcord | 1 End 810 Denier Nylon | |
| c) Print | ALPHA WIRE-* P/N B963194 | |
| | 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 144 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

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- 3) Ground Capacitance 137.76 pf/m @1 kHz, Nominal
- 4) Characteristic Impedance 82 Ω
- 5) Inductance 0.6232 μ H/m, Nominal
- 6) Conductor DCR 85.28 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 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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