

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: B963114
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 | 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	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: | 31.5 Twists/meter (min) | |
| 2) | Cable Assembly | 11 Components Cabled | |
| | a) Twists: | 11.2 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 | 9.75 (10.29 Max.) |
| | a) Color(s) | GREY | |
| | b) Ripcord | 1 End 810 Denier Nylon | |
| | c) Print | ALPHA WIRE-* P/N B963114 | |
| | | 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 | 88 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 | |
| 3) | Ground Capacitance | 137.76 pf/m @1 kHz, Nominal | |

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|-----------------------------|--|
| 4) Characteristic Impedance | 82 Ω |
| 5) Inductance | 0.6232 $\mu\text{H/m}$, Nominal |
| 6) Conductor DCR | 85.28 Ω/Km @20°C, Nominal |
| 7) OA Shield DCR | 7.5768 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 | 24 x 14 x 12 Continuous length |
| c) 328 FT | 12 x 10 x 5 Continuous length |
| d) 164 FT | 12 x 10 x 5 Continuous length |
- [Spool dimensions may vary slightly]*

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