

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: B966031
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Issue: 1
Issue Date: 9/13/2010
Effective Date: 11/8/2010

A. Construction

Diameters (mm)

- | | | |
|----------------|-------------------------|------|
| 1) Component 1 | 3 X 1 PAIR | |
| a) Conductor | 18 (16/30) AWG TC | 1.19 |
| b) Insulation | 0.41 Wall, Nom. PVC | 2.01 |
| (1) Color Code | Alpha Wire Color Code A | |

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	2	BLACK-WHITE	3	BLACK-GREEN

- | | | |
|-------------------|---|------------------|
| c) Pair | 2/Cond Cabled Together | |
| (1) Twists: | 17.5 Twists/meter (min) | |
| 2) Cable Assembly | 3 Components Cabled | |
| a) Twists: | 12.1 Twists/meter (min) | |
| b) Core Wrap | Clear Mylar Tape, 25% Overlap, Min. | |
| 3) Jacket | 0.81 Wall, Nom., PVC | 8.81 (9.18 Max.) |
| a) Color(s) | GREY | |
| b) Ripcord | 1 End 810 Denier Nylon | |
| c) Print | ALPHA WIRE-* P/N B966031 | |
| | 0.81MM2 (18AWG) (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 1569 | 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 | 75 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |

E. Electrical Properties

- | | |
|-----------------------|---------------------------------|
| | (For Engineering purposes only) |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Mutual Capacitance | 108.24 pf/m @1 kHz, Nominal |
| 3) Inductance | 0.5904 µH/m, Nominal |
| 4) Conductor DCR | 23.944 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 | 24 x 14 x 12 Continuous length |

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- | | | |
|-----------|-------------|---|
| c) 328 FT | 12 x 10 x 5 | Continuous length |
| d) 164 FT | 12 x 10 x 5 | Continuous length |
| | | <i>[Spool dimensions may vary slightly]</i> |

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