

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: B965033
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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 | 20 (7/28) AWG TC | 0.97 |
| | b) Insulation | 0.41 Wall, Nom. PVC | 1.78 |
| | (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: | 19.7 Twists/meter (min) | |
| 2) | Cable Assembly | 3 Components Cabled | |
| | a) Twists: | 13.1 Twists/meter (min) | |
| | b) Core Wrap | Clear Mylar Tape, 25% Overlap, Min. | |
| 3) | Shield | TC BRAID Shield, 85% Coverage, Min. | |
| | a) Drain Wire | 20 (7/28) AWG TC | |
| 4) | Jacket | 0.81 Wall, Nom., PVC | 8.56 (8.93 Max.) |
| | a) Color(s) | GREY | |
| | b) Ripcord | 1 End 810 Denier Nylon | |
| | c) Print | ALPHA WIRE-* P/N B965033 | |
| | | 0.56MM2 (20AWG) (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 | 68 Lbs, Maximum | |
| 4) | Sunlight Resistance | Yes | |

E. Electrical Properties

- (For Engineering purposes only)
- | | | | |
|----|--------------------------|-----------------------------|--|
| 1) | Voltage Rating | 300 V _{RMS} | |
| 2) | Mutual Capacitance | 114.8 pf/m @1 kHz, Nominal | |
| 3) | Ground Capacitance | 206.64 pf/m @1 kHz, Nominal | |
| 4) | Characteristic Impedance | 64 Ω | |
| 5) | Inductance | 0.6232 μH/m, Nominal | |
| 6) | Conductor DCR | 34.112 Ω/Km @20°C, Nominal | |

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7) OA Shield DCR 8.856 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
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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