

**ALPHA WIRE**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: B956204**  
**Page 1 of 2 Pages**

**Issue: 1**  
**Issue Date: 9/7/2010**  
**Effective Date: 11/2/2010**

**A. Construction**

**Diameters (mm)**

- |    |                |                         |      |
|----|----------------|-------------------------|------|
| 1) | Component 1    | 20 X 1 COND             |      |
|    | 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 D |      |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	8	YELLOW	15	RED/BLACK
2	RED	9	VIOLET	16	WHITE/BLACK
3	WHITE	10	SLATE	17	WHITE/RED
4	GREEN	11	PINK	18	WHITE/GREEN
5	ORANGE	12	TAN	19	WHITE/YELLOW
6	BLUE	13	RED/GREEN	20	WHITE/BLUE
7	BROWN	14	RED/YELLOW		

- |    |                |   |                    |
|----|----------------|---|--------------------|
| 2) | Cable Assembly | 20 Components Cabled                          |                    |
|    | a) Twists:     | 7.9 Twists/meter (min)                        |                    |
|    | b) Core Wrap   | Clear Mylar Tape, 25% Overlap, Min.           |                    |
| 3) | Shield:        | A/P/A Tape, 25% Overlap, Min.                 |                    |
|    | a) Drain Wire  | 20 (7/28) AWG TC                              |                    |
|    | b) Braid       | TC, 70% Coverage, Min.                        |                    |
| 4) | Jacket         | 0.81 Wall, Nom., PVC                          | 12.98 (13.48 Max.) |
|    | a) Color(s)    | GREY  |                    |
|    | b) Ripcord     | 1 End 810 Denier Nylon                        |                    |
|    | c) Print       | ALPHA WIRE-* P/N B956204                      |                    |
|    |                | 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 <sub>RMS</sub> |
|    | b) Overall     | AWM/STYLE 2464                    | 80°C / 300 V <sub>RMS</sub>  |
|    |                | 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 269 Lbs, Maximum
- 4) Sunlight Resistance Yes

**E. Electrical Properties**

- (For Engineering purposes only)
- 1) Voltage Rating 300 V<sub>RMS</sub>
  - 2) Capacitance 167.28 pf/m @1 kHz, Nominal Conductor to Conductor
  - 3) Ground Capacitance 301.76 pf/m @1 kHz, Nominal
  - 4) Inductance 0.5904 µH/m, Nominal

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- 5) Conductor DCR 23.944  $\Omega$ /Km @20°C, Nominal
- 6) OA Shield DCR 5.3792  $\Omega$ /Km @20°C, Nominal

**F. Other**

- 1) Packaging Flange x Traverse x Barrel (inches)
    - a) 3280 FT 48 x 26 x 18 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 16 x 11 x 8 Continuous length
- [Spool dimensions may vary slightly]*

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