

# ALPHA WIRE

## CUSTOMER PRODUCT SPECIFICATION

**Part Number: B955031**  
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**Issue: 1**  
**Issue Date: 8/24/2010**  
**Effective Date: 10/19/2010**

### A. Construction

### Diameters (mm)

- |                |                         |      |
|----------------|-------------------------|------|
| 1) Component 1 | 3 X 1 COND              |      |
| 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 D |      |

| Cond | Color | Cond | Color | Cond | Color |
|------|-------|------|-------|------|-------|
| 1    | BLACK | 2    | RED   | 3    | WHITE |

- |                   |                                               |                  |
|-------------------|-----------------------------------------------|------------------|
| 2) Cable Assembly | 3 Components Cabled                           |                  |
| a) Twists:        | 22.5 Twists/meter (min)                       |                  |
| b) Core Wrap      | Clear Mylar Tape, 25% Overlap, Min.           |                  |
| 3) Jacket         | 0.81 Wall, Nom.,PVC                           | 5.54 (5.80 Max.) |
| a) Color(s)       | GREY                                          |                  |
| b) Ripcord        | 1 End 810 Denier Nylon                        |                  |
| c) Print          | ALPHA WIRE-* P/N B955031                      |                  |
|                   | 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 <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        | 26 Lbs, Maximum    |
| 4) Sunlight Resistance | Yes                |

### E. Electrical Properties

- |                   |                                                  |
|-------------------|--------------------------------------------------|
|                   | (For Engineering purposes only)                  |
| 1) Voltage Rating | 300 V <sub>RMS</sub>                             |
| 2) Capacitance    | 98.4 pf/m @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance     | 0.6232 µH/m, Nominal                             |
| 4) Conductor DCR  | 33.456 Ω/Km @20°C, Nominal                       |

### F. Other

- |              |                                     |
|--------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) 3280 FT   | 20 x 11 x 8 Continuous length       |
| b) 1640 FT   | 16 x 11 x 8 Continuous length       |
| c) 328 FT    | 10 x 4 x 3.5 Continuous length      |
| d) 164 FT    | 10 x 4 x 3.5 Continuous length      |

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*[Spool dimensions may vary slightly]*

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