

**ALPHA WIRE  
CUSTOMER PRODUCT SPECIFICATION**

**Part Number: B953021**  
**Page 1 of 2 Pages**

**Issue: 1**  
**Issue Date: 8/19/2010**  
**Effective Date: 10/14/2010**

- |                        |                                 |                       |
|------------------------|---------------------------------|-----------------------|
| <b>A. Construction</b> |                                 | <b>Diameters (mm)</b> |
| 1) Component 1         | 2 X 1 COND                      |                       |
| 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 E         |                       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	BROWN		

- |                   |   |                  |
|-------------------|---|------------------|
| 2) Cable Assembly | 2 Components Cabled                           |                  |
| a) Twists:        | 39.4 Twists/meter (min)                       |                  |
| b) Core Wrap      | Clear Mylar Tape, 25% Overlap, Min.           |                  |
| 3) Jacket         | 0.81 Wall, Nom.,PVC                           | 3.94 (4.18 Max.) |
| a) Color(s)       | GREY  |                  |
| b) Ripcord        | 1 End 810 Denier Nylon                        |                  |
| c) Print          | ALPHA WIRE-* P/N B953021                      |                  |
|                   | 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 <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        | 7 Lbs, Maximum     |
| 4) Sunlight Resistance | Yes                |

**E. Electrical Properties**

- |                   |  |
|-------------------|--|
|                   | (For Engineering purposes only)                    |
| 1) Voltage Rating | 300 V <sub>RMS</sub>                               |
| 2) Capacitance    | 71.504 pf/m @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance     | 0.6232 µH/m, Nominal                               |
| 4) Conductor DCR  | 85.28 Ω/Km @20°C, Nominal                          |

**F. Other**

- |              |                                     |
|--------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) 3280 FT   | 16 x 11 x 8 Continuous length       |
| b) 1640 FT   | 12 x 10 x 5 Continuous length       |
| c) 328 FT    | 6.5 x 6 x 1.9 Continuous length     |
| d) 164 FT    | 6.5 x 4 x 2.5 Continuous length     |

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*[Spool dimensions may vary slightly]*

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