

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

**Part Number: B954044**  
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**Issue: 1**  
**Issue Date: 8/23/2010**  
**Effective Date: 10/18/2010**

**A. Construction**

**Diameters (mm)**

- |    |                |                                 |      |
|----|----------------|---------------------------------|------|
| 1) | Component 1    | 4 X 1 COND                      |      |
|    | a) Conductor   | 22 (7/30) AWG TC                | 0.76 |
|    | b) Insulation  | 0.25 Wall, Nom. PVC, Semi Rigid | 1.27 |
|    | (1) Color Code | Alpha Wire Color Code E         |      |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	RED		
2	BROWN	4	ORANGE		

- |    |                |   |                  |
|----|----------------|---|------------------|
| 2) | Cable Assembly | 4 Components Cabled                           |                  |
|    | a) Twists:     | 26.2 Twists/meter (min)                       |                  |
|    | b) Core Wrap   | Clear Mylar Tape, 25% Overlap, Min.           |                  |
| 3) | Shield:        | A/P/A Tape, 25% Overlap, Min.                 |                  |
|    | a) Drain Wire  | 22 (7/30) AWG TC                              |                  |
|    | b) Braid       | TC, 70% Coverage, Min.                        |                  |
| 4) | Jacket         | 0.81 Wall, Nom., PVC                          | 5.49 (5.77 Max.) |
|    | a) Color(s)    | GREY  |                  |
|    | b) Ripcord     | 1 End 810 Denier Nylon                        |                  |
|    | c) Print       | ALPHA WIRE-* P/N B954044                      |                  |
|    |                | 0.35MM2 (22AWG) (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        | 30 Lbs, Maximum    |  |
| 4) | Sunlight Resistance | Yes                |  |

**E. Electrical Properties** (For Engineering purposes only)

- |    |                    |  |  |
|----|--------------------|--|--|
| 1) | Voltage Rating     | 300 V <sub>RMS</sub>                               |  |
| 2) | Capacitance        | 118.08 pf/m @1 kHz, Nominal Conductor to Conductor |  |
| 3) | Ground Capacitance | 213.2 pf/m @1 kHz, Nominal                         |  |
| 4) | Inductance         | 0.5904 µH/m, Nominal                               |  |
| 5) | Conductor DCR      | 53.792 Ω/Km @20°C, Nominal                         |  |
| 6) | OA Shield DCR      | 14.432 Ω/Km @20°C, Nominal                         |  |

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**F. Other**

	Flange x Traverse x Barrel (inches)
1) Packaging	
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

*[Spool dimensions may vary slightly]*

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