

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

**Part Number: B954042**  
**Page 1 of 2 Pages**

**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:           | Alum/Mylar Tape, 25% Overlap, Min.            |                  |
|    | a) Foil Direction | Foil Facing In                                |                  |
|    | b) Drain Wire     | 22 (7/30) AWG TC                              |                  |
| 4) | Jacket            | 0.81 Wall, Nom., PVC                          | 4.88 (5.15 Max.) |
|    | a) Color(s)       | GREY  |                  |
|    | b) Ripcord        | 1 End 810 Denier Nylon                        |                  |
|    | c) Print          | ALPHA WIRE-* P/N B954042                      |                  |
|    |                   | 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        | 27 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      | 38.704 Ω/Km @20°C, Nominal                         |  |

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.  
Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

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

**Part Number: B954042**  
**Page 2 of 2 Pages**

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

**F. Other**

- |              |                                     |
|--------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) 3280 FT   | 18 x 12 x 8 Continuous length       |
| b) 1640 FT   | 12 x 12 x 3.5 Continuous length     |
| c) 328 FT    | 10 x 4 x 3.5 Continuous length      |
| d) 164 FT    | 6.5 x 4 x 2.5 Continuous length     |
- [Spool dimensions may vary slightly]*

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.