

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

**Part Number: B955042**  
**Page 1 of 2 Pages**

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

**A. Construction**

**Diameters (mm)**

- |    |                |                         |      |
|----|----------------|-------------------------|------|
| 1) | Component 1    | 4 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	3	WHITE		
2	RED	4	GREEN		

- |    |                   |   |                  |
|----|-------------------|---|------------------|
| 2) | Cable Assembly    | 4 Components Cabled                           |                  |
|    | a) Twists:        | 19.7 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     | 20 (7/28) AWG TC                              |                  |
| 4) | Jacket            | 0.81 Wall, Nom.,PVC                           | 6.12 (6.41 Max.) |
|    | a) Color(s)       | GREY  |                  |
|    | b) Ripcord        | 1 End 810 Denier Nylon                        |                  |
|    | c) Print          | ALPHA WIRE-* P/N B955042                      |                  |
|    |                   | 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        | 44 Lbs, Maximum    |  |
| 4) | Sunlight Resistance | Yes                |  |

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

- |    |                    |  |  |
|----|--------------------|--|--|
| 1) | Voltage Rating     | 300 V <sub>RMS</sub>                               |  |
| 2) | Capacitance        | 144.32 pf/m @1 kHz, Nominal Conductor to Conductor |  |
| 3) | Ground Capacitance | 259.12 pf/m @1 kHz, Nominal                        |  |
| 4) | Inductance         | 0.6232 µH/m, Nominal                               |  |
| 5) | Conductor DCR      | 33.456 Ω/Km @20°C, Nominal                         |  |
| 6) | OA Shield DCR      | 26.896 Ω/Km @20°C, Nominal                         |  |

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**Page 2 of 2 Pages**

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**F. Other**

- |              |                                     |
|--------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) 3280 FT   | 24 x 14 x 12 Continuous length      |
| b) 1640 FT   | 16 x 11 x 8 Continuous length       |
| c) 328 FT    | 12 x 4.5 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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