

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

**Part Number: B955043**  
**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         | TC BRAID Shield, 85% Coverage, Min.           |                  |
| a) Drain Wire     | 20 (7/28) AWG TC                              |                  |
| 4) Jacket         | 0.81 Wall, Nom., PVC                          | 6.58 (6.87 Max.) |
| a) Color(s)       | GREY  |                  |
| b) Ripcord        | 1 End 810 Denier Nylon                        |                  |
| c) Print          | ALPHA WIRE-* P/N B955043                      |                  |
|                   | 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        | 49 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                | 8.856 Ω/Km @20°C, Nominal                          |

**F. Other**

- |              |                                     |
|--------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
|--------------|-------------------------------------|

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- |            |                |                   |
|------------|----------------|-------------------|
| a) 3280 FT | 24 x 14 x 12   | Continuous length |
| b) 1640 FT | 18 x 12 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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