

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

**Part Number: 6414**  
**Page 1 of 2 Pages**

**Issue: 3**  
**Issue Date: 5/26/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters**

- |    |                |                                    |       |
|----|----------------|------------------------------------|-------|
| 1) | Component 1    | 3 X 1 PAIR                         |       |
|    | a) Conductor   | 24 (7/32) AWG TC                   |       |
|    | b) Insulation  | 0.016" Wall, Nom. Polyethylene(PE) | 0.056 |
|    | (1) Color Code | Alpha Wire Color Code M            |       |

Pair	Color	Pair	Color	Pair	Color
1	BLUE/WHITE - WHITE/BLUE	2	ORANGE/WHITE - WHITE/ORANGE	3	GREEN/WHITE - WHITE/GREEN

- |    |                   |   |                    |
|----|-------------------|---|--------------------|
| c) | Pair              | 2/Cond Cabled Together  |                    |
|    | (1) Twists:       | 8.0 Twists/foot (min)   |                    |
| 2) | Cable Assembly    | 3 Components Cabled   |                    |
|    | a) Twists:        | 4.0 Twists/foot (min)   |                    |
| 3) | Shield:           | Alum/Mylar Tape, 25% Overlap, Min.  |                    |
|    | a) Foil Direction | Foil Facing Out   |                    |
|    | b) Drain Wire     | 24 (7/32) AWG TC  |                    |
|    | c) Braid          | TC, 90% Coverage, Min.  |                    |
| 4) | Jacket            | 0.035" Wall, Nom., PVC  | 0.294 (0.308 Max.) |
|    | a) Color(s)       | GRAY  |                    |
|    | b) Print          | ALPHA WIRE-* P/N 6414 3PR 24 AWG<br>SHIELDED 75C (UL) TYPE CM OR AWM 2919 LOW VOLTAGE<br>COMPUTER CABLE --- LLXXXXXX CSA TYPE CMH FT1<br>ROHS<br>* = Factory Code |                    |

*[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]*

**B. Industry Approvals**

- |    |                                |  |                    |
|----|--------------------------------|--|--------------------|
| 1) | UL                             | AWM/STYLE2919<br>CM<br>VW-1  | 80°C / 30V<br>75°C |
| 2) | CSA International              | CMH<br>FT1   | 60°C               |
| 3) | 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. |                    |
| 4) | California Proposition 65:     | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.   |                    |

**C. Physical & Mechanical Properties**

- |    |                   |                    |
|----|-------------------|--------------------|
| 1) | Temperature Range | -20 to 80°C        |
| 2) | Bend Radius       | 10X Cable Diameter |
| 3) | Pull Tension      | 31 Lbs, Maximum    |

**D. Electrical Properties**

- |                                 |                          |                             |
|---------------------------------|--------------------------|-----------------------------|
| (For Engineering purposes only) |                          |                             |
| 1)                              | Voltage Rating           | 300 V <sub>RMS</sub>        |
| 2)                              | Characteristic Impedance | 120 Ω                       |
| 3)                              | Mutual Capacitance       | 12.8 pf/ft @1 kHz, Nominal  |
| 4)                              | Ground Capacitance       | 23 pf/ft @1 kHz, Nominal    |
| 5)                              | Conductor DCR            | 26 Ω/1000ft @20°C, Nominal  |
| 6)                              | OA Shield DCR            | 2.7 Ω/1000ft @20°C, Nominal |

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**E. Other**

- 1) Packaging
  - a) 1000 FT
  - b) 500 FT
  - c) 100 FT

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