

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

**Part Number: 6401**  
**Page 1 of 2 Pages**

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

**A. Construction**

**Diameters**

- |    |                |                                    |       |
|----|----------------|------------------------------------|-------|
| 1) | Component 1    | 2 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		

- |    |                   |                                                                                                                                                                   |                    |
|----|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| c) | Pair              | 2/Cond Cabled Together                                                                                                                                            |                    |
|    | (1) Twists:       | 8.0 Twists/foot (min)                                                                                                                                             |                    |
| 2) | Cable Assembly    | 2 Components Cabled                                                                                                                                               |                    |
|    | a) Twists:        | 4.4 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,65% Coverage, Min.                                                                                                                                             |                    |
| 4) | Jacket            | 0.035" Wall, Nom.,PVC                                                                                                                                             | 0.280 (0.293 Max.) |
|    | a) Color(s)       | GRAY                                                                                                                                                              |                    |
|    | b) Print          | ALPHA WIRE-* P/N 6401 2PR 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                                                                                                                                                                                                                                                                | 80°C / 30V |
|    |                                | CM                                                                                                                                                                                                                                                                           | 75°C       |
|    |                                | VW-1                                                                                                                                                                                                                                                                         |            |
| 2) | CSA International              | CMH                                                                                                                                                                                                                                                                          | 60°C       |
|    |                                | FT1                                                                                                                                                                                                                                                                          |            |
| 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      | 21.6 Lbs, Maximum  |

**D. Electrical Properties**

(For Engineering purposes only)

- |    |                          |                             |
|----|--------------------------|-----------------------------|
| 1) | Voltage Rating           | 300 V <sub>RMS</sub>        |
| 2) | Characteristic Impedance | 100 Ω                       |
| 3) | Mutual Capacitance       | 15.5 pf/ft @1 kHz, Nominal  |
| 4) | Ground Capacitance       | 27.5 pf/ft @1 kHz, Nominal  |
| 5) | Conductor DCR            | 26 Ω/1000ft @20°C, Nominal  |
| 6) | OA Shield DCR            | 3.9 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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