

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

**Part Number: 6413**  
**Page 1 of 1 Pages**

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

**A. Construction**

**Diameters (In)**

- |                |                                    |       |
|----------------|------------------------------------|-------|
| 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 Company 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, 90% Coverage, Min.  |                    |
| 4) Jacket         | 0.035" Wall, Nom., PVC  | 0.280 (0.293 Max.) |
| a) Color(s)       | SLATE   |                    |
| b) Print          | ALPHA WIRE-* P/N 6413 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/STYLE 2919   | 80°C / 30 VRMS |
|                                   | 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      | 24.2 Lbs, Maximum  |

**D. Electrical Properties**

- |                                 |                             |
|---------------------------------|-----------------------------|
| (For Engineering purposes only) |                             |
| 1) Voltage Rating               | 300 VRMS                    |
| 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                | 2.5 Ω/1000ft @20°C, Nominal |

**E. Other**

- |              |  |
|--------------|--|
| 1) Packaging |  |
| a) 1000 FT   |  |
| b) 500 FT    |  |

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c) 100 FT

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