

# ALPHA WIRE

## CUSTOMER PRODUCT SPECIFICATION

**Part Number: 6415**  
**Page 1 of 2 Pages**

**Issue: 5**  
**Issue Date: 1/22/2013**  
**Effective Date: 2/8/2013**

### A. Construction

### Diameters (In)

- 1) Component 1 4 X 1 PAIR
- a) Conductor 24 (7/32) AWG TC
- b) Insulation 0.016" Wall, Nom. Polyethylene(PE)
- (1) Color Code Alpha Wire Color Code M

0.024  
0.056

Pair	Color	Pair	Color	Pair	Color
1	BLUE/WHITE - WHITE/BLUE	3	GREEN/WHITE - WHITE/GREEN		
2	ORANGE/WHITE - WHITE/ORANGE	4	BROWN/WHITE - WHITE/BROWN		

- c) Pair 2/Cond Cabled Together
- (1) Twists: 8.0 Twists/foot (min)
- 2) Cable Assembly 4 Components Cabled
- a) Twists: 3.7 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 0.318 (0.333 Max.)
- a) Color(s) SLATE
- b) Print ALPHA WIRE-\* P/N 6415 4PR 24 AWG  
SHIELDED 75C (UL) C(UL) TYPE CM OR  
AWM 2919 LOW VOLTAGE COMPUTER CABLE  
CE ROHS  
\* = Factory Code

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

### B. Applicable Specifications

- 1) UL AWM/STYLE 2919 80°C / 30 V<sub>RMS</sub>  
CM 75°C  
VW-1
- 2) CSA International C(UL) TYPE CM 75°C
- 3) CE: EU Low Voltage Directive 2006/95/EC

### C. Environmental Compliance

- 1) CE: EU Directive 2011/65/EU(RoHS2):  
This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for [RoHS C of C](#).
- 2) REACH Regulation (EC 1907/2006):  
This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see [Alpha's REACH SVHC Declaration](#).
- 3) California Proposition 65: The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

### D. Physical & Mechanical Properties

- 1) Temperature Range -20 to 80°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 38 Lbs, Maximum

### E. 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 2.9 Ω/1000ft @20°C, Nominal

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**F. Other**

- |              |                                             |
|--------------|---------------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches)         |
| a) 1000 FT   | 18 x 12 x 8 Continuous length               |
| b) 500 FT    | 12 x 10 x 5 Continuous length               |
| c) 100 FT    | 12 x 4.5 x 3.5 Continuous length            |
|              | <i>[Spool dimensions may vary slightly]</i> |

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