

**ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 6301
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Issue: 3
Issue Date: 5/26/2005
Effective Date: 8/1/2005

A. Construction

Diameters (In)

- 1) Component 1 6 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	3	GREEN/WHITE - WHITE/GREEN	5	SLATE/WHITE - WHITE/SLATE
2	ORANGE/WHITE - WHITE/ORANGE	4	BROWN/WHITE - WHITE/BROWN	6	BLUE/RED - RED/BLUE

- c) Pair 2/Cond Cabled Together
- (1) Twists: 2 - 6 Twists/foot (approx.)
- 2) Cable Assembly 6 Components Cabled
- a) Twists: 3.0 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
- 4) Jacket 0.035" Wall, Nom.,PVC 0.351 (0.368 Max.)
- a) Color(s) SLATE
- b) Print ALPHA WIRE-* P/N 6301 6PR 24 AWG
SHIELDED 75C (UL) TYPE CM OR AWM 2919 LOW VOLTAGE
COMPUTER CABLE --- LLXXXXXX CSA TYPE CMH FT1
ROHS

* = 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 46 Lbs, Maximum

D. Electrical Properties

(For Engineering purposes only)

- 1) Voltage Rating 300 VRMS
- 2) Mutual Capacitance 12.8 pf/ft @1 kHz, Nominal
- 3) Ground Capacitance 23 pf/ft @1 kHz, Nominal
- 4) Characteristic Impedance 120 Ω
- 5) Inductance 0.22 μH/ft, Nominal
- 6) Conductor DCR 26 Ω/1000ft @20°C, Nominal
- 7) OA Shield DCR 13.4 Ω/1000ft @20°C, Nominal

E. Other

- 1) Packaging
 - a) 1000 FT

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- b) 500 FT
- c) 100 FT

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