

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

- | | | |
|----------------|------------------------------------|-------|
| 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 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) | GRAY | |
| 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/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 | 46 Lbs, Maximum |

D. Electrical Properties

(For Engineering purposes only)

- | | |
|-----------------------------|------------------------------|
| 1) Voltage Rating | 300 V _{RMS} |
| 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 |

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E. Other

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

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