

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6412
Page 1 of 2 Pages

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

A. Construction

Diameters

- | | | | |
|----|----------------|------------------------------------|-------|
| 1) | Component 1 | 1 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
1	BLUE/WHITE - WHITE/BLUE		

- | | | | |
|----|-------------------|---|--------------------|
| c) | Cabling | 2 COND Cabled | |
| | (1) Twists: | 8.0 Twists/foot (min) | |
| 2) | 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. | |
| 3) | Jacket | 0.035" Wall, Nom.,PVC | 0.208 (0.218 Max.) |
| | a) Color(s) | GRAY | |
| | b) Print | ALPHA WIRE-* P/N 6412 1PR 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
CM
VW-1 | 80°C / 30V
75°C |
| 2) | CSA International | CMH
FT1 | 60°C |
| 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 | 15.2 Lbs, Maximum |

D. Electrical Properties

(For Engineering purposes only)

- | | | |
|----|--------------------------|-----------------------------|
| 1) | Voltage Rating | 300 V _{RMS} |
| 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 | 25 Ω/1000ft @20°C, Nominal |
| 6) | OA Shield DCR | 3.4 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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