

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6409
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Issue: 3
Issue Date: 5/26/2005
Effective Date: 8/1/2005

A. Construction

Diameters

- 1) Component 1 12 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	5	SLATE/WHITE - WHITE/SLATE	9	BROWN/RED - RED/BROWN
2	ORANGE/WHITE - WHITE/ORANGE	6	BLUE/RED - RED/BLUE	10	SLATE/RED - RED/SLATE
3	GREEN/WHITE - WHITE/GREEN	7	ORANGE/RED - RED/ORANGE	11	BLUE/BLACK - BLACK/BLUE
4	BROWN/WHITE - WHITE/BROWN	8	GREEN/RED - RED/GREEN	12	ORANGE/BLACK - BLACK/ORANGE

- c) Pair 2/Cond Cabled Together
 - (1) Twists: 8.0 Twists/foot (min)
- 2) Cable Assembly 12 Components Cabled
 - a) Twists: 2.2 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,65% Coverage, Min.
- 4) Jacket 0.035" Wall, Nom.,PVC 0.478 (0.500 Max.)
 - a) Color(s) GRAY
 - b) Print ALPHA WIRE-* P/N 6409 12PR 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 96 Lbs, Maximum

D. Electrical Properties (For Engineering purposes only)

- 1) Voltage Rating 300 V_{RMS}
- 2) Characteristic Impedance 100 Ω
- 3) Mutual Capacitance 15.5 pf/ft @1 kHz, Nominal
- 4) Ground Capacitance 27.5 pf/ft @1 kHz, Nominal
- 5) Conductor DCR 26 Ω/1000ft @20°C, Nominal

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6) OA Shield DCR 2.1 Ω /1000ft @20°C, Nominal

E. Other

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

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