ALPHA WIRE COMPANY CUSTOMER PRODUCT SPECIFICATION

Part Number: 6304 Issue: 3

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A. Construction <u>Diameters</u>

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: 2 - 6 Twists/foot (approx.)

2) Component 2 1 X 1 COND a) Conductor 24 (7/32) AWG TC

b) Insulation 0.016" Wall, Nom. Polyethylene(PE) 0.056

(1) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	GREEN/BLACK				

3) Cable Assembly 13 Components Cabled a) Twists: 2.2 Twists/foot (min)

4) Shield: Alum/Mylar Tape, 25% Overlap, Min.

a) Foil Direction Foil Facing Out
b) Drain Wire 24 (7/32) AWG TC

5) Jacket 0.035" Wall, Nom., PVC 0.455 (0.477 Max.)

a) Color(s) GRAY

b) Print ALPHA WIRE-* P/N 6304 12PR 24 AWG 1/C 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 Radius3) Pull Tension10X Cable Diameter91 Lbs, Maximum

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D. Electrical Properties

(For Engineering purposes only)

1) Voltage Rating

300 V_{RMS}

2) Component 1

a) Mutual Capacitance 12.8 pf/ft @1 kHz, Nominal b) Ground Capacitance 23 pf/ft @1 kHz, Nominal

c) Characteristic Impedance 120 Ω

d) Inductance

0.22 µH/ft, Nominal e) Conductor DCR 26 Ω/1000ft @20°C, Nominal f) OA Shield DCR 11.5 Ω/1000ft @20°C, Nominal

2) Component 2

a) Ground Capacitance 43 pf/ft @1 kHz, Nominal 0.07 µH/ft, Nominal b) Inductance 26 Ω/1000ft @20°C, Nominal c) Conductor DCR 11.6 Ω/1000ft @20°C, Nominal d) OA Shield DCR

E. Other

1) Packaging

a) 1000 FT

500 FT b)

c) 100 FT

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