ALPHA WIRE COMPANY CUSTOMER PRODUCT SPECIFICATION

Part Number: 6438 Issue: 4

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A. Construction <u>Diameters</u>

1) Component 1 9 X 1 PAIR

a) Conductor 22 (7/.0096) AWG TC

b) Insulation 0.013" Wall, Nom. PVC 0.055

(1) Color Code Alpha Wire Color Code BR

Pair	Color	Pair	Color	Pair	Color
1	BLACK#1-RED#1	4	BLACK#4-RED#4	7	BLACK#7-RED#7
2	BLACK#2-RED#2	5	BLACK#5-RED#5	8	BLACK#8-RED#8
3	BLACK#3-RED#3	6	BLACK#6-RED#6	9	BLACK#9-RED#9

c) Pair 2/Cond Cabled Together (1) Twists: 8.0 Twists/foot (min)

Individually Applied:

d) Shield: Foil Free Alum/Mylar Tape, 25% Overlap, Min.

(1) Foil Direction Foil Facing In
(2) Drain Wire 24 (7/32) AWG TC
2) Cable Assembly 9 Components Cabled
a) Twists: 2.2 Twists/foot (min)

b) Core Wrap Clear Mylar Tape, 25% Overlap, Min.

3) Jacket 0.053" Wall, Nom., PVC 0.477 (0.500 Max.)

a) Color(s) GRAY

b) Print ALPHA WIRE-* P/N 6438 9PR 22 AWG

SHIELDED 105C (UL) TYPE PLTC SUN. RES. OR TYPE CM --- LLXXXXXX CSA TYPE CMG FT4 ROHS

* = Factory Code

[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

B. Industry Approvals

1) UL CM 105°C PLTC 105°C

SUN RES

2) CSA International CMG 60°C

FT4

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

Temperature Range
 Bend Radius
 Pull Tension
 20 to 105°C
 10X Cable Diameter
 123 Lbs, Maximum

D. Electrical Properties (For Engineering purposes only)

1) Voltage Rating 300 V_{RMS}

2) Mutual Capacitance3) Ground Capacitance47 pf/ft @1 kHz, Nominal85 pf/ft @1 kHz, Nominal

Characteristic Impedance 48 Ω

5) Inductance 0.19 µH/ft, Nominal

6) Conductor DCR 18 Ω/1000ft @20°C, Nominal

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7) Component Shield DCR 19.8 Ω/1000ft @20°C, Nominal

E. Other

1) Packaging

a) 1000 FT

b) 500 FT

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