ALPHA WIRE COMPANY CUSTOMER PRODUCT SPECIFICATION

Part Number: 6431 Issue: 4

Page 1 of 2 Pages Issue Date: 5/26/2005 Effective Date: 8/1/2005

A. Construction <u>Diameters</u>

1) Component 1 9 X 1 PAIR

a) Conductor 18 (19/30) AWG TC

b) Insulation 0.016" Wall, Nom. PVC 0.082
(1) Print ALPHA NUMERIC NUMBERS - 1-ONE ALTERNATING AND

INVERTED 2 INCH SPACING(CTR. TO CTR.)

(2) 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: 4.8 Twists/foot (approx.)

2) Cable Assembly 9 Components Cabled a) Twists: 9 Components Cabled 1.7 Twists/foot (min)

b) Core Wrap Clear Mylar Tape, 25% Overlap, Min. 3) Shield: Alum/Mylar Tape, 25% Overlap, Min.

a) Foil Direction Foil Facing In

b) Drain Wire 20 (7/.0121) AWG TC

4) Jacket 0.063" Wall, Nom.,PVC 0.622 (0.646 Max.)

a) Color(s) GRAY

b) Print ALPHA WIRE-* P/N 6431 9PR 18 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

1) Temperature Range -20 to 105°C

2) Bend Radius3) Pull Tension10X Cable Diameter277 Lbs, Maximum

D. Electrical Properties (For Engineering purposes only)

1) Voltage Rating 300 V_{RMS}

2) Mutual Capacitance36 pf/ft @1 kHz, Nominal3) Ground Capacitance65 pf/ft @1 kHz, Nominal

Characteristic Impedance 62 Ω

5) Inductance 0.17 μH/ft, Nominal

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Page 2 of 2 Pages Issue Date: 5/26/2005 Effective Date: 8/1/2005

6) Conductor DCR7) OA Shield DCR

6.1 Ω /1000ft @20°C, Nominal 6.7 Ω /1000ft @20°C, Nominal

E. Other

1) Packaging

a) 1000 FT

b) 500 FT

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