ALPHA WIRE COMPANY CUSTOMER PRODUCT SPECIFICATION

Part Number: 58416 Issue: 8

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Effective Date: 2/6/2009

A. Construction <u>Diameters (In)</u>

1) Component 1 6 X 1 PAIR

a) Conductor 22 (7/30) AWG BC

b) Insulation 0.008" Wall, Nom. PVC, Plenum Rated 0.046

(1) Color Code Alpha Wire Company Color Code A1

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	3	BLACK-GREEN	5	BLACK-YELLOW
2	BLACK-WHITE	4	BLACK-BLUE	6	BLACK-BROWN

c) Pair 2/Cond Cabled Together
(1) Twists: 8.0 Twists/foot (min)
Cable Assembly 6 Components Cabled

a) Twists: 3.7 Twists/foot (min)

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

a) Foil Directionb) Drain WireFoil Facing Out24 (7/32) AWG TC

4) Jacket 0.015" Wall, Nom.,PVC, Plenum Rated 0.261 (0.275 Max.)

a) Color(s) SLATE

b) Print ALPHA WIRE-* P/N 58416 6PR 22 AWG

SHIELDED 75C CMP(UL) C(UL) OR 75C (UL) CL2P ROHS

* = Factory Code

B. Industry Approvals

1) UL CMP 75°C CL2P 75°C

2) CSA International FT6

C(UL) TYPE CMP 75°C

3) Other REACH Regulation (EC 1907/2006)

4) 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.

5) 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 75°C

2) Bend Radius3) Pull Tension10X Cable Diameter69 Lbs, Maximum

D. Electrical Properties (For Engineering purposes only)

1) Voltage Rating 300 V_{RMS}

2) Mutual Capacitance 34 pf/ft @1 kHz, Nominal 3) Ground Capacitance 61 pf/ft @1 kHz, Nominal

Characteristic Impedance 63 Ω

5) Inductance 0.17 µH/ft, Nominal

6) Conductor DCR 15.4 $\Omega/1000$ ft @20°C, Nominal 7) OA Shield DCR 15.9 $\Omega/1000$ ft @20°C, Nominal

E. Other

1) Packaging

a) 1000 FT b) 500 FT

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