

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6417
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Issue: 5
Issue Date: 2/5/2009
Effective Date: 2/5/2009

A. Construction

Diameters (In)

- 1) Component 1 2 X 1 PAIR
 - a) Conductor 22 (7/30) AWG TC
 - b) Insulation 0.013" Wall, Nom. PVC 0.056
 - (1) Print ALPHA NUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED
 - (2) Color Code Alpha Wire Company Color Code BR

Pair	Color	Pair	Color	Pair	Color
1	BLACK#1-RED#1	2	BLACK#2-RED#2		

- c) Pair 2/Cond Cabled Together
 - (1) Twists: 8.0 Twists/foot (approx.)
- 2) Cable Assembly 2 Components Cabled
 - a) Twists: 4.4 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 24 (7/32) AWG TC
- 4) Jacket 0.038" Wall, Nom.,PVC 0.267 (0.280 Max.)
 - a) Color(s) SLATE
 - b) Print ALPHA WIRE-* P/N 6417 2PR 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

- 1) Temperature Range -20 to 105°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 26 Lbs, Maximum

D. Electrical Properties

(For Engineering purposes only)

- 1) Voltage Rating 300 V_{RMS}
- 2) Mutual Capacitance 38 pf/ft @1 kHz, Nominal
- 3) Ground Capacitance 68 pf/ft @1 kHz, Nominal
- 4) Characteristic Impedance 55 Ω
- 5) Inductance 0.19 μH/ft, Nominal
- 6) Conductor DCR 16.6 Ω/1000ft @20°C, Nominal
- 7) OA Shield DCR 15.8 Ω/1000ft @20°C, Nominal

E. Other

- 1) Packaging

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- a) 1000 FT
- b) 500 FT

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