

**ALPHA WIRE COMPANY**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 6014C**  
**Page 1 of 2 Pages**

**Issue: 6**  
**Issue Date: 5/26/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters**

- 1) Component 1                    9 X 1 PAIR
  - a) Conductor                    22 (7/30) AWG TC
  - b) Insulation                    0.010" Wall, Nom. Polypropylene(PP)                    0.050
    - (1) Color Code                Alpha Wire Color Code A
  
- 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                22 (7/30) AWG TC
- 2) Cable Assembly                9 Components Cabled
  - a) Twists:                    2.4 Twists/foot (min)
  - b) Core Wrap                    Clear Mylar Tape, 25% Overlap, Min.
- 3) Jacket                         0.048" Wall, Nom.,PVC                    0.436 (0.456 Max.)
  - a) Color(s)                    GRAY
  - b) Print                         ALPHA WIRE-\* P/N 6014C 9PR 22 AWG  
SHIELDED 75C (UL) TYPE CM OR AWM 2493 ---  
LLXXXXXX CSA TYPE CMG FT4    ROHS  
\* = Factory Code

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	4	BLACK-BLUE	7	BLACK-ORANGE
2	BLACK-WHITE	5	BLACK-BROWN	8	RED-GREEN
3	BLACK-GREEN	6	BLACK-YELLOW	9	RED-WHITE

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

**B. Industry Approvals**

- 1) UL                                AWM/STYLE2493                    60°C  
CM                                    75°C  
VW-1
- 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 75°C
- 2) Bend Radius                10X Cable Diameter
- 3) Pull Tension                148 Lbs, Maximum

**D. Electrical Properties**

(For Engineering purposes only)

- 1) Voltage Rating              300 V<sub>RMS</sub>
- 2) Characteristic Impedance 60 Ω
- 3) Inductance                    0.18 μH/ft, Nominal
- 4) Mutual Capacitance        28 pf/ft @1 kHz, Nominal
- 5) Ground Capacitance        50 pf/ft @1 kHz, Nominal
- 6) Conductor DCR                16.6 Ω/1000ft @20°C, Nominal

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7) Ind. Shield DC Resistance 14.4  $\Omega$ /1000ft @20°C, Nominal

**E. Other**

- 1) Packaging
  - a) 1000 FT
  - b) 500 FT
  - c) 100 FT

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