

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

Part Number: 6022C

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Issue: 6

Issue Date: 5/26/2005

Effective Date: 8/1/2005

**A. Construction**

**Diameters**

- 1) Component 1 27 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

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	10	RED-BLUE	19	WHITE-BLUE
2	BLACK-WHITE	11	RED-YELLOW	20	WHITE-BROWN
3	BLACK-GREEN	12	RED-BROWN	21	WHITE-ORANGE
4	BLACK-BLUE	13	RED-ORANGE	22	WHITE-YELLOW
5	BLACK-BROWN	14	GREEN-BLUE	23	BLUE-BROWN
6	BLACK-YELLOW	15	GREEN-WHITE	24	BLUE-ORANGE
7	BLACK-ORANGE	16	GREEN-BROWN	25	BLUE-YELLOW
8	RED-GREEN	17	GREEN-ORANGE	26	BROWN-ORANGE
9	RED-WHITE	18	GREEN-YELLOW	27	BROWN-YELLOW

- 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 27 Components Cabled  
a) Twists: 1.4 Twists/foot (min)  
b) Core Wrap Clear Mylar Tape, 25% Overlap, Min.  
3) Jacket 0.063" Wall, Nom.,PVC 0.698 (0.731 Max.)  
a) Color(s) GRAY  
b) Print ALPHA WIRE-\* P/N 6022C 27PR 22 AWG  
SHIELDED 75C (UL) TYPE CM OR AWM 2493 ---  
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 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 445 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

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- 4) Mutual Capacitance 28 pf/ft @1 kHz, Nominal
- 5) Ground Capacitance 50 pf/ft @1 kHz, Nominal
- 6) Conductor DCR 16.6  $\Omega$ /1000ft @20°C, Nominal
- 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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