

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

**Part Number: 6017C**  
**Page 1 of 2 Pages**

**Issue: 7**  
**Issue Date: 3/2/2009**  
**Effective Date: 3/9/2009**

**A. Construction**

**Diameters (In)**

- 1) Component 1 12 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 Company Color Code A

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	5	BLACK-BROWN	9	RED-WHITE
2	BLACK-WHITE	6	BLACK-YELLOW	10	RED-BLUE
3	BLACK-GREEN	7	BLACK-ORANGE	11	RED-YELLOW
4	BLACK-BLUE	8	RED-GREEN	12	RED-BROWN

- 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 12 Components Cabled
- a) Twists: 2.1 Twists/foot (min)
- b) Core Wrap Clear Mylar Tape, 25% Overlap, Min.
- 3) Jacket 0.048" Wall, Nom.,PVC 0.483 (0.505 Max.)
- a) Color(s) SLATE
- b) Print ALPHA WIRE-\* P/N 6017C 12PR 22 AWG  
SHIELDED 75C (UL) TYPE CMG OR AWM 2493 ---  
C(UL) CMG FT4 ROHS  
\* = Factory Code

**B. Industry Approvals**

- 1) UL AWM/STYLE 2493 60°C  
VW-1  
CMG 75°C
- 2) CSA International C(UL) TYPE CMG 75°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 198 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
- 7) Ind. Shield DC Resistance 14.4 Ω/1000ft @20°C, Nominal

**E. Other**

- 1) Packaging
- a) 1000 FT

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- b) 500 FT
- c) 100 FT

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