

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

Part Number: 6017C

Issue: 6

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Issue Date: 5/26/2005

Effective Date: 8/1/2005

**A. Construction**

Diameters

- |                |                                     |       |
|----------------|-------------------------------------|-------|
| 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 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)           | GRAY  |                    |
| b) Print              | ALPHA WIRE-* P/N 6017C 12PR 22 AWG<br>SHIELDED 75C (UL) TYPE CM OR AWM 2493 ---<br>LLXXXXXX CSA TYPE CMG FT4 ROHS<br>* = 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      | 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 |

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- 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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