

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

**Part Number: 6036C**  
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**Issue: 5**  
**Issue Date: 5/26/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters**

- | 1) Component 1  | 6 X 1 PAIR   |                    |             |       |              |       |      |       |   |           |   |             |   |             |   |             |   |            |   |              |
|---|--|--------------------|-------------|-------|--------------|-------|------|-------|---|-----------|---|-------------|---|-------------|---|-------------|---|------------|---|--------------|
| a) Conductor  | 20 (7/28) AWG TC   |                    |             |       |              |       |      |       |   |           |   |             |   |             |   |             |   |            |   |              |
| b) Insulation   | 0.013" Wall, Nom. Polypropylene(PP)  | 0.064              |             |       |              |       |      |       |   |           |   |             |   |             |   |             |   |            |   |              |
| (1) Color Code  | Alpha Wire Color Code A  |                    |             |       |              |       |      |       |   |           |   |             |   |             |   |             |   |            |   |              |
| <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Pair</th> <th>Color</th> <th>Pair</th> <th>Color</th> <th>Pair</th> <th>Color</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>BLACK-RED</td> <td>3</td> <td>BLACK-GREEN</td> <td>5</td> <td>BLACK-BROWN</td> </tr> <tr> <td>2</td> <td>BLACK-WHITE</td> <td>4</td> <td>BLACK-BLUE</td> <td>6</td> <td>BLACK-YELLOW</td> </tr> </tbody> </table> |  |                    | Pair        | Color | Pair         | Color | Pair | Color | 1 | BLACK-RED | 3 | BLACK-GREEN | 5 | BLACK-BROWN | 2 | BLACK-WHITE | 4 | BLACK-BLUE | 6 | BLACK-YELLOW |
| Pair  | Color  | Pair               | Color       | Pair  | Color        |       |      |       |   |           |   |             |   |             |   |             |   |            |   |              |
| 1   | BLACK-RED  | 3                  | BLACK-GREEN | 5     | BLACK-BROWN  |       |      |       |   |           |   |             |   |             |   |             |   |            |   |              |
| 2   | BLACK-WHITE  | 4                  | BLACK-BLUE  | 6     | BLACK-YELLOW |       |      |       |   |           |   |             |   |             |   |             |   |            |   |              |
| c) Pair   | 2/Cond Cabled Together   |                    |             |       |              |       |      |       |   |           |   |             |   |             |   |             |   |            |   |              |
| (1) Twists:   | 6.9 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   | 6 Components Cabled  |                    |             |       |              |       |      |       |   |           |   |             |   |             |   |             |   |            |   |              |
| a) Twists:  | 2.3 Twists/foot (min)  |                    |             |       |              |       |      |       |   |           |   |             |   |             |   |             |   |            |   |              |
| b) Core Wrap  | Clear Mylar Tape, 25% Overlap, Min.  |                    |             |       |              |       |      |       |   |           |   |             |   |             |   |             |   |            |   |              |
| 3) Jacket   | 0.047" Wall, Nom.,PVC  | 0.450 (0.468 Max.) |             |       |              |       |      |       |   |           |   |             |   |             |   |             |   |            |   |              |
| a) Color(s)   | GRAY   |                    |             |       |              |       |      |       |   |           |   |             |   |             |   |             |   |            |   |              |
| b) Print  | ALPHA WIRE-* P/N 6036C 6PR 20 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      | 138 Lbs, Maximum   |

**D. Electrical Properties**

(For Engineering purposes only)

- |                             |                              |
|-----------------------------|------------------------------|
| 1) Voltage Rating           | 300 V <sub>RMS</sub>         |
| 2) Characteristic Impedance | 61 Ω                         |
| 3) Inductance               | 0.18 μH/ft, Nominal          |
| 4) Mutual Capacitance       | 25 pf/ft @1 kHz, Nominal     |
| 5) Ground Capacitance       | 45 pf/ft @1 kHz, Nominal     |
| 6) Conductor DCR            | 10.3 Ω/1000ft @20°C, Nominal |

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7) Ind. Shield DC Resistance 13.8  $\Omega$ /1000ft @20°C, Nominal

**E. Other**

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

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