

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

Part Number: 6072C  
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Issue: 4  
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**A. Construction**

Diameters

- |    |               |                                       |       |
|----|---------------|---------------------------------------|-------|
| 1) | Component 1   | 2 X 1 PAIR                            |       |
|    | a) Conductor  | 22 (SOLID) AWG TC                     |       |
|    | b) Insulation | 0.028" Wall, Nom. Polypropylene, Foam | 0.081 |
|    | (1) Color(s)  |                                       |       |
- 
- | Pair | Color        | Pair | Color    | Pair | Color |
|------|--------------|------|----------|------|-------|
| 1    | BLACK-YELLOW | 2    | RED-BLUE |      |       |
- 
- |    |                   |  |                |
|----|-------------------|--|----------------|
| c) | Pair              | 2/Cond Cabled Together   |                |
|    | (1) Twists:       | 5.3 Twists/foot (min)  |                |
| 2) | Cable Assembly    | 2 Components Bunch Cabled  |                |
|    | a) Twists:        | 2.8 Twists/foot (min)  |                |
|    | b) Core Wrap      | Clear Mylar Tape, 25% Overlap, Min.  |                |
| 3) | Shield:           | Alum/Mylar Tape, 25% Overlap, Min.   |                |
|    | a) Foil Direction | Foil Facing In   |                |
|    | b) Drain Wire     | 22 (7/30) AWG TC   |                |
| 4) | Jacket            | 0.040" Wall, Nom., PVC   | 0.375+/- 0.021 |
|    | a) Color(s)       | BLACK  |                |
|    | b) Print          | ALPHA WIRE-* P/N 6072C 2PR 22 AWG<br>SHIELDED 75C (UL) TYPE CM OR AWM 2668 ---<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/STYLE2668 | 60°C / 30V |
|    |                   | CM            | 75°C       |
| 2) | CSA International | CMG           | 60°C       |
|    |                   | FT4           |            |

**C. Physical & Mechanical Properties**

- |    |                   |                    |
|----|-------------------|--------------------|
| 1) | Temperature Range | -20 to 75°C        |
| 2) | Bend Radius       | 10X Cable Diameter |
| 3) | Pull Tension      | 26 Lbs, Maximum    |

**D. Electrical Properties**

(For Engineering purposes only)

- |    |                           |  |
|----|---------------------------|--|
| 1) | Voltage Rating            | 300 V <sub>RMS</sub>   |
| 2) | Characteristic Impedance  | 150 Ω +/- 8  |
| 3) | Inductance                | 0.26 μH/ft, Nominal  |
| 4) | Mutual Capacitance        | 8.8 pf/ft @1 kHz, Nominal  |
| 5) | Velocity of Propagation   | 76 %   |
| 6) | Conductor DCR             | 17.3 Ω/1000ft @20°C, Nominal                                     |
| 7) | OA Shield DCR             | 6.2 Ω/1000ft @20°C, Nominal                                      |
| 8) | Attenuation, Max dB/100ft | 0.13 @ 100 kHz<br>0.36 @ 1 MHz<br>1.01 @ 10 MHz<br>2.25 @ 50 MHz |

**E. Other**

- |    |            |
|----|------------|
| 1) | Packaging  |
|    | a) 1000 FT |
|    | b) 500 FT  |

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