

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

**Part Number: 6054C**  
**Page 1 of 2 Pages**

**Issue: 6**  
**Issue Date: 5/23/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters**

- |                |                         |       |
|----------------|-------------------------|-------|
| 1) Component 1 | 4 X 1 PAIR              |       |
| a) Conductor   | 22 (7/30) AWG TC        |       |
| b) Insulation  | 0.016" Wall, Nom. PVC   | 0.062 |
| (1) Color Code | Alpha Wire Color Code A |       |
- 
- | Pair | Color       | Pair | Color       | Pair | Color |
|------|-------------|------|-------------|------|-------|
| 1    | BLACK-RED   | 3    | BLACK-GREEN |      |       |
| 2    | BLACK-WHITE | 4    | BLACK-BLUE  |      |       |
- 
- |                       |  |                    |
|-----------------------|--|--------------------|
| 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     | 4 Components Cabled  |                    |
| a) Twists:            | 3.0 Twists/foot (min)  |                    |
| b) Core Wrap          | Clear Mylar Tape, 25% Overlap, Min.  |                    |
| 3) Jacket             | 0.043" Wall, Nom., PVC   | 0.364 (0.380 Max.) |
| a) Color(s)           | GRAY   |                    |
| b) Print              | ALPHA WIRE-* P/N 6054C 4PR 22 AWG<br>SHIELDED 75C (UL) TYPE CM OR AWM 2464 --- LLXXXXXX<br>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/STYLE2464  | 80°C / 300V |
|                                   | 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 80°C        |
| 2) Bend Radius       | 10X Cable Diameter |
| 3) Pull Tension      | 66 Lbs, Maximum    |

**D. Electrical Properties**

(For Engineering purposes only)

- |                             |                              |
|-----------------------------|------------------------------|
| 1) Voltage Rating           | 300 V <sub>RMS</sub>         |
| 2) Mutual Capacitance       | 43 pf/ft @1 kHz, Nominal     |
| 3) Ground Capacitance       | 77 pf/ft @1 kHz, Nominal     |
| 4) Characteristic Impedance | 53 Ω                         |
| 5) Inductance               | 0.2 μH/ft, Nominal           |
| 6) Conductor DCR            | 16.6 Ω/1000ft @20°C, Nominal |

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7) Component Shield DCR 13.8  $\Omega$ /1000ft @20°C, Nominal

**E. Other**

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

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