

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

Part Number: 6388  
Page 1 of 2 Pages

Issue: 5  
Issue Date: 5/26/2005  
Effective Date: 8/1/2005

**A. Construction**

Diameters

- |    |                |                                    |       |
|----|----------------|------------------------------------|-------|
| 1) | Component 1    | 12 X 1 PAIR                        |       |
|    | a) Conductor   | 24 (7/32) AWG TC                   |       |
|    | b) Insulation  | 0.010" Wall, Nom. Polyethylene(PE) | 0.044 |
|    | (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:           | 9.6 Twists/foot (min)  |                    |
|    | Individually Applied: |  |                    |
|    | d) Shield:            | Foil Free Alum/Mylar Tape, 25% Overlap, Min.   |                    |
|    | (1) Foil Direction    | Foil Facing In   |                    |
|    | (2) Drain Wire        | 24 (7/32) AWG TC   |                    |
| 2) | Cable Assembly        | 12 Components Cabled   |                    |
|    | a) Twists:            | 2.4 Twists/foot (min)  |                    |
| 3) | Jacket                | 0.035" Wall, Nom.,PVC  | 0.411 (0.433 Max.) |
|    | a) Color(s)           | GRAY   |                    |
|    | b) Print              | ALPHA WIRE-* P/N 6388 12PR 24 AWG<br>SHIELDED 75C (UL) TYPE CM OR AWM 2919 LOW VOLTAGE<br>COMPUTER CABLE --- LLXXXXXX CSA TYPE CMG FT4<br>ROHS<br>* = Factory Code |                    |

*[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]*

**B. Industry Approvals**

- |    |                                |  |                    |
|----|--------------------------------|--|--------------------|
| 1) | UL                             | AWM/STYLE2919<br>CM<br>VW-1  | 80°C / 30V<br>75°C |
| 2) | CSA International              | CMG<br>FT4   | 60°C               |
| 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      | 127 Lbs, Maximum   |

**D. Electrical Properties**

- (For Engineering purposes only)
- |    |                          |                            |
|----|--------------------------|----------------------------|
| 1) | Voltage Rating           | 300 V <sub>RMS</sub>       |
| 2) | Characteristic Impedance | 60 Ω                       |
| 3) | Mutual Capacitance       | 25 pf/ft @1 kHz, Nominal   |
| 4) | Ground Capacitance       | 47 pf/ft @1 kHz, Nominal   |
| 5) | Conductor DCR            | 26 Ω/1000ft @20°C, Nominal |

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**Page 2 of 2 Pages**

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6) Ind. Shield DC Resistance 21  $\Omega$ /1000ft @20°C, Nominal

**E. Other**

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

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