

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

**Part Number: 6381**  
**Page 1 of 1 Pages**

**Issue: 3**  
**Issue Date: 5/23/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters (In)**

- |                |                                   |       |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 12 X 1 PAIR                       |       |
| a) Conductor   | 22 (7/30) AWG TC                  |       |
| b) Insulation  | 0.010" Wall, Nom. PVC, Semi Rigid | 0.050 |
| (1) Color Code | Alpha Wire Company 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)             |       |
| 2) Component 2 | 1 X 1 COND                        |       |
| a) Conductor   | 22 (7/30) AWG TC                  |       |
| b) Insulation  | 0.010" Wall, Nom. PVC, Semi Rigid | 0.050 |
| (1) Color(s)   |                                   |       |

Cond	Color	Cond	Color	Cond	Color
1	RED				

- |                   |   |                    |
|-------------------|---|--------------------|
| 3) Cable Assembly | 13 Components Cabled  |                    |
| a) Twists:        | 2.4 Twists/foot (min)   |                    |
| 4) Shield:        | Alum/Mylar Tape, 25% Overlap, Min.  |                    |
| a) Foil Direction | Foil Facing Out   |                    |
| b) Drain Wire     | 24 (7/32) AWG TC  |                    |
| c) Braid          | TC, 65% Coverage, Min.  |                    |
| 5) Jacket         | 0.032" Wall, Nom., PVC  | 0.430 (0.452 Max.) |
| a) Color(s)       | SLATE   |                    |
| b) Print          | ALPHA WIRE-* P/N 6381 12PR/1C 22 AWG<br>SHIELDED 75C (UL) TYPE CM OR AWM 2464 --- LLXXXXXX<br>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/STYLE 2464   | 80°C / 300 VRMS |
|                                   | 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      | 148 Lbs, Maximum   |

**D. Electrical Properties**

- |                   |   |
|-------------------|---|
| 1) Voltage Rating | (For Engineering purposes only)<br>300 VRMS |
|-------------------|---|

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- 2) Characteristic Impedance 70  $\Omega$
- 3) Mutual Capacitance 35 pf/ft @1 kHz, Nominal
- 4) Ground Capacitance 63 pf/ft @1 kHz, Nominal
- 5) Conductor DCR 16.6  $\Omega$ /1000ft @20°C, Nominal
- 6) OA Shield DCR 2.6  $\Omega$ /1000ft @20°C, Nominal

**E. Other**

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

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