

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

Part Number: 6331  
Page 1 of 2 Pages

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

**A. Construction**

Diameters

- |                |                                   |       |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 7 X 1 COND                        |       |
| a) Conductor   | 24 (7/32) AWG TC                  |       |
| b) Insulation  | 0.010" Wall, Nom. PVC, Semi Rigid | 0.044 |
| (1) Color(s)   |                                   |       |

| Cond | Color | Cond | Color | Cond | Color  |
|------|-------|------|-------|------|--------|
| 1    | BLACK | 4    | GREEN | 7    | ORANGE |
| 2    | WHITE | 5    | BROWN |      |        |
| 3    | RED   | 6    | BLUE  |      |        |

- |                   |   |                    |
|-------------------|---|--------------------|
| 2) Cable Assembly | 7 Components Cabled   |                    |
| a) Twists:        | 6.0 Twists/foot (min)   |                    |
| 3) 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.  |                    |
| 4) Jacket         | 0.032" Wall, Nom., PVC  | 0.223 (0.235 Max.) |
| a) Color(s)       | GRAY  |                    |
| b) Print          | ALPHA WIRE-* P/N 6331 7/C 24 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      | 31 Lbs, Maximum    |

**D. Electrical Properties**

(For Engineering purposes only)

- |                       |   |
|-----------------------|---|
| 1) Voltage Rating     | 300 V <sub>RMS</sub>                            |
| 2) Capacitance        | 32 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 58 pf/ft @1 kHz, Nominal                        |
| 4) Inductance         | 0.19 µH/ft, Nominal                             |
| 5) Conductor DCR      | 26 Ω/1000ft @20°C, Nominal                      |
| 6) OA Shield DCR      | 5.5 Ω/1000ft @20°C, Nominal                     |

**E. Other**

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

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- b) 500 FT
- c) 100 FT

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