

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

**Part Number: 6300/10**  
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**Issue: 3**  
**Issue Date: 5/23/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters (In)**

- |    |               |                                   |       |
|----|---------------|-----------------------------------|-------|
| 1) | Component 1   | 10 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	5	BROWN	9	VIOLET
2	WHITE	6	BLUE	10	GRAY
3	RED	7	ORANGE		
4	GREEN	8	YELLOW		

- |    |                   |  |                    |
|----|-------------------|--|--------------------|
| 2) | Cable Assembly    | 10 Components Cabled   |                    |
|    | a) Twists:        | 4.8 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   |                    |
| 4) | Jacket            | 0.032" Wall, Nom., PVC   | 0.244 (0.258 Max.) |
|    | a) Color(s)       | SLATE  |                    |
|    | b) Print          | ALPHA WIRE-* P/N 6300/10 10C 24 AWG<br>SHIELDED 75C (UL) TYPE CM OR AWM 2464 --- LLXXXXXX<br>CSA TYPE CMG FT4 ROHS<br>* = Factory Code<br><i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i> |                    |

**B. Industry Approvals**

- |    |                                |  |                             |
|----|--------------------------------|--|-----------------------------|
| 1) | UL                             | AWM/STYLE 2464   | 80°C / 300 V <sub>RMS</sub> |
|    |                                | 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      | 39 Lbs, Maximum    |

**D. Electrical Properties**

- |    |                    |   |
|----|--------------------|---|
| 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      | 15.9 Ω/1000ft @20°C, Nominal                    |

**E. Other**

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

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