

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

Part Number: 6310  
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Issue: 3  
Issue Date: 5/23/2005  
Effective Date: 8/1/2005

**A. Construction**

Diameters

- |                |                                   |       |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 30 X 1 COND                       |       |
| a) Conductor   | 24 (7/32) AWG TC                  |       |
| b) Insulation  | 0.010" Wall, Nom. PVC, Semi Rigid | 0.044 |
| (1) Color Code | Alpha Wire Color Code F           |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	11	BLUE/BLACK	21	ORANGE/GREEN
2	WHITE	12	BLACK/WHITE	22	BLACK/WHITE/RED
3	RED	13	RED/WHITE	23	WHITE/BLACK/RED
4	GREEN	14	GREEN/WHITE	24	RED/BLACK/WHITE
5	ORANGE	15	BLUE/WHITE	25	GREEN/BLACK/WHITE
6	BLUE	16	BLACK/RED	26	ORANGE/BLACK/WHITE
7	WHITE/BLACK	17	WHITE/RED	27	BLUE/BLACK/WHITE
8	RED/BLACK	18	ORANGE/RED	28	BLACK/RED/GREEN
9	GREEN/BLACK	19	BLUE/RED	29	WHITE/RED/GREEN
10	ORANGE/BLACK	20	RED/GREEN	30	RED/BLACK/GREEN

- |                   |  |                    |
|-------------------|--|--------------------|
| 2) Cable Assembly | 30 Components Cabled   |                    |
| a) Twists:        | 3.0 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   |                    |
| 4) Jacket         | 0.040" Wall, Nom., PVC   | 0.366 (0.386 Max.) |
| a) Color(s)       | GRAY   |                    |
| b) Print          | ALPHA WIRE-* P/N 6310 30/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      | 109 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      | 13.4 Ω/1000ft @20°C, Nominal                    |

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**E. Other**

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

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