

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

**Part Number: 6349**  
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**Issue: 3**  
**Issue Date: 5/23/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters (In)**

- |                |                                   |       |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 37 X 1 COND                       |       |
| 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 F   |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	14	GREEN/WHITE	27	BLUE/BLACK/WHITE
2	WHITE	15	BLUE/WHITE	28	BLACK/RED/GREEN
3	RED	16	BLACK/RED	29	WHITE/RED/GREEN
4	GREEN	17	WHITE/RED	30	RED/BLACK/GREEN
5	ORANGE	18	ORANGE/RED	31	GREEN/BLACK/ORANGE
6	BLUE	19	BLUE/RED	32	ORANGE/BLACK/GREEN
7	WHITE/BLACK	20	RED/GREEN	33	BLUE/WHITE/ORANGE
8	RED/BLACK	21	ORANGE/GREEN	34	BLACK/WHITE/ORANGE
9	GREEN/BLACK	22	BLACK/WHITE/RED	35	WHITE/RED/ORANGE
10	ORANGE/BLACK	23	WHITE/BLACK/RED	36	ORANGE/WHITE/BLUE
11	BLUE/BLACK	24	RED/BLACK/WHITE	37	WHITE/RED/BLUE
12	BLACK/WHITE	25	GREEN/BLACK/WHITE		
13	RED/WHITE	26	ORANGE/BLACK/WHITE		

- |                   |   |                    |
|-------------------|---|--------------------|
| 2) Cable Assembly | 37 Components Cabled  |                    |
| a) Twists:        | 2.4 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  | 0.440 (0.462 Max.) |
| a) Color(s)       | SLATE   |                    |
| b) Print          | ALPHA WIRE-* P/N 6349 37C 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 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      | 214 Lbs, Maximum   |

**D. Electrical Properties**

- |                       |   |
|-----------------------|---|
|                       | (For Engineering purposes only)                 |
| 1) Voltage Rating     | 300 V <sub>RMS</sub>                            |
| 2) Capacitance        | 36 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 65 pf/ft @1 kHz, Nominal                        |
| 4) Inductance         | 0.18 µH/ft, Nominal                             |
| 5) Conductor DCR      | 16.5 Ω/1000ft @20°C, Nominal                    |
| 6) OA Shield DCR      | 2.6 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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