

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6312
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Issue: 3
Issue Date: 5/23/2005
Effective Date: 8/1/2005

A. Construction

Diameters

- | | | |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 50 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	18	ORANGE/RED	35	WHITE/RED/ORANGE
2	WHITE	19	BLUE/RED	36	ORANGE/WHITE/BLUE
3	RED	20	RED/GREEN	37	WHITE/RED/BLUE
4	GREEN	21	ORANGE/GREEN	38	BLACK/WHITE/GREEN
5	ORANGE	22	BLACK/WHITE/RED	39	WHITE/BLACK/GREEN
6	BLUE	23	WHITE/BLACK/RED	40	RED/WHITE/GREEN
7	WHITE/BLACK	24	RED/BLACK/WHITE	41	GREEN/WHITE/BLUE
8	RED/BLACK	25	GREEN/BLACK/WHITE	42	ORANGE/RED/GREEN
9	GREEN/BLACK	26	ORANGE/BLACK/WHITE	43	BLUE/RED/GREEN
10	ORANGE/BLACK	27	BLUE/BLACK/WHITE	44	BLACK/WHITE/BLUE
11	BLUE/BLACK	28	BLACK/RED/GREEN	45	WHITE/BLACK/BLUE
12	BLACK/WHITE	29	WHITE/RED/GREEN	46	RED/WHITE/BLUE
13	RED/WHITE	30	RED/BLACK/GREEN	47	GREEN/ORANGE/RED
14	GREEN/WHITE	31	GREEN/BLACK/ORANGE	48	ORANGE/RED/BLUE
15	BLUE/WHITE	32	ORANGE/BLACK/GREEN	49	BLUE/RED/ORANGE
16	BLACK/RED	33	BLUE/WHITE/ORANGE	50	BLACK/ORANGE/RED
17	WHITE/RED	34	BLACK/WHITE/ORANGE		

- | | | |
|-------------------|--|--------------------|
| 2) Cable Assembly | 50 Components Cabled | |
| a) Twists: | 2.3 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 | 0.045" Wall, Nom.,PVC | 0.453 (0.478 Max.) |
| a) Color(s) | GRAY | |
| b) Print | ALPHA WIRE-* P/N 6312 50/C 24 AWG
SHIELDED 75C (UL) TYPE CM OR AWM 2464 --- LLXXXXXX
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 | 179 Lbs, Maximum |

D. Electrical Properties

- | | |
|---------------------------------|---|
| (For Engineering purposes only) | |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 32 pf/ft @1 kHz, Nominal Conductor to Conductor |

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- 3) Ground Capacitance 58 pf/ft @1 kHz, Nominal
- 4) Inductance 0.19 μ H/ft, Nominal
- 5) Conductor DCR 26 Ω /1000ft @20°C, Nominal
- 6) OA Shield DCR 13.4 Ω /1000ft @20°C, Nominal

E. Other

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

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