

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6321
Page 1 of 2 Pages

Issue: 4
Issue Date: 5/26/2005
Effective Date: 8/1/2005

A. Construction

Diameters (In)

- | | | |
|----------------|--------------------------------------|-------|
| 1) Component 1 | 7 X 1 PAIR | |
| a) Conductor | 24 (7/32) AWG TC | |
| b) Insulation | 0.019" Wall, Nom. Polyethylene, Foam | 0.062 |
| (1) Color Code | Alpha Wire Company Color Code A | |

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

- | | | |
|-----------------------|---|--------------------|
| c) Pair | 2/Cond Cabled Together | |
| (1) Twists: | 6.9 Twists/foot (min) | |
| Individually Applied: | | |
| d) Shield: | Foil Free Alum/Mylar Tape, 25% Overlap, Min. | |
| (1) Foil Direction | Foil Facing In | |
| (2) Drain Wire | 24 (7/32) AWG TC | |
| 2) Cable Assembly | 7 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 | 0.048" Wall, Nom.,PVC | 0.464 (0.483 Max.) |
| a) Color(s) | SLATE | |
| b) Print | ALPHA WIRE-* P/N 6321 7PR 24 AWG
SHIELDED 75C (UL) TYPE CM OR AWM 2493 --- LLXXXXXX
CSA TYPE CMH FT1 ROHS | |

* = Factory Code

[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

B. Industry Approvals

- | | | |
|-----------------------------------|----------------|------|
| 1) UL | AWM/STYLE 2493 | 60°C |
| | CM | 75°C |
| | VW-1 | |
| 2) CSA International | CMH | 60°C |
| | FT1 | |
| 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 75°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 84 Lbs, Maximum |
| D. Electrical Properties | (For Engineering purposes only) |

- | | |
|------------------------------|------------------------------|
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Characteristic Impedance | 100 Ω |
| 3) Mutual Capacitance | 12.5 pf/ft @1 kHz, Nominal |
| 4) Ground Capacitance | 22 pf/ft @1 kHz, Nominal |
| 5) Conductor DCR | 26 Ω/1000ft @20°C, Nominal |
| 6) Ind. Shield DC Resistance | 19.8 Ω/1000ft @20°C, Nominal |
| 7) 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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