

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6321
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Issue: 4
Issue Date: 5/26/2005
Effective Date: 8/1/2005

A. Construction

Diameters

- | | | | |
|----|----------------|--------------------------------------|-------|
| 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 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) | GRAY | |
| | 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/STYLE2493 | 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 | |

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- 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

E. Other

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

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