

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

**Part Number: 6324**  
**Page 1 of 2 Pages**

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

**A. Construction**

Diameters (In)

- 1) Component 1 15 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	6	BLACK-YELLOW	11	RED-YELLOW
2	BLACK-WHITE	7	BLACK-ORANGE	12	RED-BROWN
3	BLACK-GREEN	8	RED-GREEN	13	RED-ORANGE
4	BLACK-BLUE	9	RED-WHITE	14	GREEN-BLUE
5	BLACK-BROWN	10	RED-BLUE	15	GREEN-WHITE

- 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 15 Components Cabled
- a) Twists: 1.5 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 0.063" Wall, Nom.,PVC 0.687 (0.715 Max.)
- a) Color(s) SLATE
- b) Print ALPHA WIRE-\* P/N 6324 15PR 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 171 Lbs, Maximum

**D. Electrical Properties**

(For Engineering purposes only)

- 1) Voltage Rating 300 V<sub>RMS</sub>
- 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

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7) OA Shield DCR                      2.1  $\Omega$ /1000ft @20°C, Nominal

**E. Other**

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

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