

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

**Part Number: 6322**  
**Page 1 of 2 Pages**

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

**A. Construction**

**Diameters (In)**

- 1) Component 1 8 X 1 PAIR  
 a) Conductor 24 (7/32) AWG TC  
 b) Insulation 0.019" Wall, Nom. Polyethylene, Foam 0.062  
 (1) Color(s)

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	4	BLACK-BLUE	7	BLACK-ORANGE
2	BLACK-WHITE	5	BLACK-YELLOW	8	RED-WHITE
3	BLACK-GREEN	6	BLACK-BROWN		

- 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 8 Components Cabled  
 a) Twists: 2.2 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 0.499 (0.519 Max.)  
 a) Color(s) SLATE  
 b) Print ALPHA WIRE-\* P/N 6322 8PR 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 95 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  
 7) OA Shield DCR 2.7 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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