

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

**Part Number: 5478L**  
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**Issue: 1**  
**Issue Date: 1/5/2009**  
**Effective Date: 1/5/2009**

**A. Construction**

**Diameters (In)**

- 1) Component 1 8 X 1 PAIR
- a) Conductor 24 (7/32) AWG TC
- b) Insulation 0.010" Wall, Nom. Low Smoke Zero Halogen (LSZH) 0.043
- (1) Color Code Alpha Wire Company Color Code K

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: 9.6 Twists/foot (min)
- 2) Cable Assembly 8 Components Cabled
- a) Twists: 3.4 Twists/foot (min)
- 3) Shield: Alum/Mylar Tape, 25% Overlap, Min.
- a) Foil Direction Foil Facing In
- b) Drain Wire 24 (7/32) AWG TC
- 4) Jacket 0.032" Wall, Nom., Low Smoke Zero Halogen (LSZH) 0.319 (0.337 Max.)
- a) Color(s) SLATE
- b) Print ALPHA WIRE-\* P/N 5478L 8PR 24 AWG  
SHIELDED 75C (UL) TYPE CM OR 75C C(UL) TYPE CMG  
LSZH ROHS  
\* = Factory Code

**B. Industry Approvals**

- 1) UL CM 75°C
- 2) CSA International FT4 C(UL) TYPE CMG 75°C
- 3) Other REACH Regulation (EC 1907/2006)
- 4) 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.

**C. Physical & Mechanical Properties**

- 1) Temperature Range -20 to 75°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 60 Lbs, Maximum

**D. Electrical Properties**

(For Engineering purposes only)

- 1) Voltage Rating 300 V<sub>RMS</sub>
- 2) Inductance 0.19 µH/ft, Nominal
- 3) Conductor DCR 26 Ω/1000ft @20°C, Nominal
- 4) OA Shield DCR 15.9 Ω/1000ft @20°C, Nominal

**E. Other**

- 1) Packaging
- a) Bulk(Made-to-order)
- 2) Notes:
  - a) Flammability - Passes IEC 60332-1
  - b) Acid Gas Generation - Passes IEC 60754-1 and 60754-2
  - c) Smoke Emission - Passes IEC 61034-2

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