

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

**Part Number: 2249C**  
**Page 1 of 1 Pages**

**Issue: 4**  
**Issue Date: 5/23/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters (In)**

- 1) Component 1 9 X 1 PAIR
  - a) Conductor 18 (16/30) AWG TC
  - b) Insulation 0.016" Wall, Nom. PVC 0.079
  - (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	8	RED-GREEN
3	BLACK-GREEN	6	BLACK-YELLOW	9	RED-WHITE

- c) Pair 2/Cond Cabled Together
  - (1) Twists: 5.3 Twists/foot (min)
- 2) Cable Assembly 9 Components Cabled
  - a) Twists: 1.7 Twists/foot (min)
- 3) Shield: Alum/Mylar Tape, 25% Overlap, Min.
  - a) Foil Direction Foil Facing Out
  - b) Drain Wire 20 (10/30) AWG TC
- 4) Jacket 0.055" Wall, Nom., PVC 0.585 (0.609 Max.)
  - a) Color(s) SLATE
  - b) Print ALPHA WIRE-\* P/N 2249C 9PR 18 AWG  
SHIELDED 75C (UL) TYPE CM OR AWM 2464 --- LLXXXXXX  
CSA TYPE CMG FT4 ROHS  
\* = Factory Code

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

**B. Industry Approvals**

- 1) UL AWM/STYLE 2464 80°C / 300 V<sub>RMS</sub>  
CM 75°C  
VW-1
- 2) CSA International CMG 60°C  
FT4
- 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 80°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 234 Lbs, Maximum

**D. Electrical Properties**

(For Engineering purposes only)

- 1) Voltage Rating 300 V<sub>RMS</sub>
- 2) Mutual Capacitance 35 pf/ft @1 kHz, Nominal
- 3) Ground Capacitance 63 pf/ft @1 kHz, Nominal
- 4) Characteristic Impedance 64 Ω
- 5) Inductance 0.18 μH/ft, Nominal
- 6) Conductor DCR 7.3 Ω/1000ft @20°C, Nominal
- 7) OA Shield DCR 7.1 Ω/1000ft @20°C, Nominal

**E. Other**

- 1) Packaging
  - a) 1000 FT

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- b) 500 FT
- c) 100 FT

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