

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

<b>Part Number: 2246C</b> <b>Page 1 of 1 Pages</b>	<b>Issue: 4</b> <b>Issue Date: 5/23/2005</b> <b>Effective Date: 8/1/2005</b>
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- A. Construction** Diameters (In)
- 1) Component 1 6 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	3	BLACK-GREEN	5	BLACK-BROWN
2	BLACK-WHITE	4	BLACK-BLUE	6	BLACK-YELLOW

- c) Pair 2/Cond Cabled Together
  - (1) Twists: 5.3 Twists/foot (min)
- 2) Cable Assembly 6 Components Cabled
  - a) Twists: 2.1 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 0.045" Wall, Nom.,PVC 0.485 (0.504 Max.)
  - a) Color(s) SLATE
  - b) Print ALPHA WIRE-\* P/N 2246C 6PR 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 159 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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