

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

Part Number: 2464C  
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Issue: 3  
Issue Date: 4/13/2005  
Effective Date: 6/1/2005

**A. Construction**

Diameters

- 1) Component 1                    2 X 1 COND  
 a) Conductor                    22 (7/30) AWG TC  
 b) Insulation                    0.008" Wall, Nom. Polyethylene(PE)                    0.046  
 (1) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	WHITE	2	GREEN		

- 2) Component 2                    1 X 1 PAIR  
 a) Conductor                    22 (7/30) AWG TC  
 b) Insulation                    0.008" Wall, Nom. Polyethylene(PE)                    0.046  
 (1) Color(s)

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED				

- c) Cabling                    2 COND Cabled  
 Individually Applied:  
 d) Shield:                    Alum/Mylar Tape, 25% Overlap, Min.  
 (1) Foil Direction            Foil Facing Out  
 (2) Drain Wire              22 (7/30) AWG TC  
 3) Cable Assembly            3 Components Cabled  
 a) Twists:                    6.9 Twists/foot (min)  
 b) Core Wrap                Clear Mylar Tape, 25% Overlap, Min.  
 4) Jacket                    0.020" Wall, Nom.,PVC                    0.165 (0.182 Max.)  
 a) Color(s)                    GRAY  
 b) Print                      ALPHA WIRE-\* P/N 2464C 4/C 22 AWG  
                                      SHIELDED 75C (UL) TYPE CM --- 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                            CM                            75°C  
 2) CSA International        CMG                        60°C  
 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              27 Lbs, Maximum

**D. Electrical Properties**

- (For Engineering purposes only)  
 1) Voltage Rating            300 V<sub>RMS</sub>  
 2) Component 1  
 a) Inductance                0.17 µH/ft, Nominal  
 b) Mutual Capacitance      16.4 pf/ft @1 kHz, Nominal

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- c) Conductor DCR 16.2  $\Omega$ /1000ft @20°C, Nominal
- 3) Component 2
  - a) Characteristic Impedance 53  $\Omega$
  - b) Inductance 0.17  $\mu$ H/ft, Nominal
  - c) Mutual Capacitance 29 pf/ft @1 kHz, Nominal
  - d) Ground Capacitance 52 pf/ft @1 kHz, Nominal
  - e) Conductor DCR 16.2  $\Omega$ /1000ft @20°C, Nominal
  - f) Ind. Shield DC Resistance 14.2  $\Omega$ /1000ft @20°C, Nominal

**E. Other**

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

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