

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

Part Number: 2463C  
Page 1 of 2 Pages

Issue: 4  
Issue Date: 4/13/2005  
Effective Date: 6/1/2005

**A. Construction**

Diameters

- |                |                                    |       |
|----------------|------------------------------------|-------|
| 1) Component 1 | 4 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    | RED-BLACK   | 3    | WHITE/RED-WHITE/BLACK    |      |       |
| 2    | GREEN-WHITE | 4    | WHITE/GREEN-WHITE/YELLOW |      |       |
- 
- |                       |  |                    |
|-----------------------|--|--------------------|
| c) Pair               | 2/Cond Cabled Together   |                    |
| Individually Applied: |  |                    |
| d) Shield:            | Alum/Mylar Tape, 25% Overlap, Min.   |                    |
| (1) Foil Direction    | Foil Facing Out  |                    |
| 2) Cable Assembly     | 4 Components Cabled  |                    |
| a) Twists:            | 4.4 Twists/foot (min)  |                    |
| b) Drain Wire         | 24 (7/32) AWG TC   |                    |
| 3) Jacket             | 0.020" Wall, Nom.,PVC  | 0.230 (0.252 Max.) |
| a) Color(s)           | GRAY   |                    |
| b) Print              | ALPHA WIRE-* P/N 2463C 4PR 22 AWG<br>SHIELDED 75C (UL) TYPE CM --- LLXXXXXX CSA TYPE<br>CMG FT4 ROHS<br>* = 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      | 47.5 Lbs, Maximum  |

**D. Electrical Properties**

(For Engineering purposes only)

- |                             |                              |
|-----------------------------|------------------------------|
| 1) Voltage Rating           | 300 V <sub>RMS</sub>         |
| 2) Characteristic Impedance | 53 Ω                         |
| 3) Inductance               | 0.17 μH/ft, Nominal          |
| 4) Mutual Capacitance       | 29 pf/ft @1 kHz, Nominal     |
| 5) Ground Capacitance       | 52 pf/ft @1 kHz, Nominal     |
| 6) Conductor DCR            | 16.2 Ω/1000ft @20°C, Nominal |
| 7) OA Shield DCR            | 12 Ω/1000ft @20°C, Nominal   |

**E. Other**

- |              |  |
|--------------|--|
| 1) Packaging |  |
| a) 1000 FT   |  |
| b) 500 FT    |  |

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c) 100 FT

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