

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

Part Number: 2422C

Issue: 5

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Issue Date: 5/20/2005

Effective Date: 8/1/2005

**A. Construction**

Diameters

- |                |                                    |       |
|----------------|------------------------------------|-------|
| 1) Component 1 | 2 X 1 COND                         |       |
| a) Conductor   | 18 (16/30) AWG TC                  |       |
| b) Insulation  | 0.016" Wall, Nom. Polyethylene(PE) | 0.079 |
| (1) Color(s)   |                                    |       |

Cond	Color	Cond	Color
1	BLACK	2	RED

- |                   |   |                    |
|-------------------|---|--------------------|
| 2) Cable Assembly | 2 Components Cabled   |                    |
| a) Twists:        | 5.3 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         | 0.020" Wall, Nom.,PVC   | 0.202 (0.212 Max.) |
| a) Color(s)       | GRAY  |                    |
| b) Print          | ALPHA WIRE-* P/N 2422C 2/C 18 AWG<br>SHIELDED 75C (UL) TYPE CM OR AWM 2092 ----<br>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/STYLE2092  | 60°C / 300V |
|                                   | 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 75°C        |
| 2) Bend Radius       | 10X Cable Diameter |
| 3) Pull Tension      | 33 Lbs, Maximum    |

**D. Electrical Properties**

(For Engineering purposes only)

- |                             |   |
|-----------------------------|---|
| 1) Voltage Rating           | 300 V <sub>RMS</sub>                            |
| 2) Capacitance              | 27 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance       | 49 pf/ft @1 kHz, Nominal                        |
| 4) Characteristic Impedance | 58 Ω  |
| 5) Inductance               | 0.18 μH/ft, Nominal                             |
| 6) Conductor DCR            | 7.1 Ω/1000ft @20°C, Nominal                     |
| 7) OA Shield DCR            | 9 Ω/1000ft @20°C, Nominal                       |

**E. Other**

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

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- c) BOX 500FT
- d) 500 FT
- e) 100 FT

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