

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

**Part Number: 1741C**  
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**Issue: 6**  
**Issue Date: 5/19/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters**

- |                |                         |       |
|----------------|-------------------------|-------|
| 1) Component 1 | 2 X 1 COND              |       |
| a) Conductor   | 20 (7/28) AWG TC        |       |
| b) Insulation  | 0.016" Wall, Nom. PVC   | 0.070 |
| (1) Color Code | Alpha Wire Color Code D |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	RED		

- |                   |  |                    |
|-------------------|--|--------------------|
| 2) Cable Assembly | 2 Components Cabled  |                    |
| a) Twists:        | 6.0 Twists/foot (min)  |                    |
| b) Core Wrap      | Clear Mylar Tape, 25% Overlap, Min.  |                    |
| 3) Shield         | BC BRAID Shield, 75% Coverage, Min.  |                    |
| 4) Jacket         | 0.020" Wall, Nom., PVC   | 0.205 (0.215 Max.) |
| a) Color(s)       | GRAY   |                    |
| b) Print          | ALPHA WIRE-* P/N 1741C 2/C 20 AWG<br>SHIELDED 75C (UL) TYPE CM OR AWM 2095 --- LLXXXXXX<br>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/STYLE2095  | 80°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 80°C        |
| 2) Bend Radius       | 10X Cable Diameter |
| 3) Pull Tension      | 20.8 Lbs, Maximum  |

**D. Electrical Properties**

(For Engineering purposes only)

- |                             |   |
|-----------------------------|---|
| 1) Voltage Rating           | 300 V <sub>RMS</sub>                            |
| 2) Capacitance              | 48 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance       | 86 pf/ft @1 kHz, Nominal                        |
| 4) Characteristic Impedance | 46 Ω  |
| 5) Inductance               | 0.19 μH/ft, Nominal                             |
| 6) Conductor DCR            | 10.2 Ω/1000ft @20°C, Nominal                    |
| 7) OA Shield DCR            | 5.7 Ω/1000ft @20°C, Nominal                     |

**E. Other**

- |              |  |
|--------------|--|
| 1) Packaging |  |
| a) 1000 FT   |  |
| b) 500 FT    |  |
| c) 100 FT    |  |

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