

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

Part Number: 9059C  
Page 1 of 2 Pages

Issue: 5  
Issue Date: 3/29/2006  
Effective Date: 5/15/2006

**A. Construction**

Diameters

- |    |               |                                    |       |
|----|---------------|------------------------------------|-------|
| 1) | Component 1   | 1 X 1 COAX                         |       |
|    | a) Conductor  | 22 (SOLID) AWG BCW                 |       |
|    | b) Insulation | 0.060" Wall, Nom. Polyethylene(PE) | 0.146 |
|    | (1) Color(s)  |                                    |       |

Cond	Color	Cond	Color	Cond	Color
1	NATURAL				

- |    |             |                                    |                |
|----|-------------|------------------------------------|----------------|
| 2) | Shield      | BC BRAID Shield,95% Coverage, Min. |                |
| 3) | Jacket      | 0.034" Wall, Nom.,Type I PVC       | 0.242+/- 0.008 |
|    | a) Color(s) | Black, Red, Gray, Blue, Green      |                |
|    | b) Print    | ALPHA WIRE-* P/N 9059C 1C 22 AWG   |                |

RG 59/U SHIELDED (UL) TYPE CL2 OR AWM STYLE  
1354 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/STYLE1354       | 60°C / 30V |
|    |                                | CL2                 | 60°C       |
| 2) | CSA International              | CMG                 | 60°C       |
|    |                                | FT4                 |            |
| 3) | Military                       | JAN-C-17A / RG-59/U |            |
| 4) | 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.

- 5) 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 60°C        |
| 2) | Bend Radius       | 10X Cable Diameter |
| 3) | Pull Tension      | 12.4 Lbs, Maximum  |

**D. Electrical Properties**

(For Engineering purposes only)

- |    |                           |                              |
|----|---------------------------|------------------------------|
| 1) | Voltage Rating            | 1700 V <sub>RMS</sub>        |
| 2) | Characteristic Impedance  | 73 Ω +/- 3                   |
| 3) | Ground Capacitance        | 21 pf/ft @1 kHz, Nominal     |
| 4) | Velocity of Propagation   | 66 %                         |
| 5) | Conductor DCR             | 41.3 Ω/1000ft @20°C, Nominal |
| 6) | OA Shield DCR             | 2.6 Ω/1000ft @20°C, Nominal  |
| 7) | Voltage Withstanding      | 7 kV, Minimum                |
| 8) | Corona Extinction         | 2.3 kV, Minimum              |
| 9) | Attenuation, Max dB/100ft | 10.5 @ 400 MHz               |

**E. Other**

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

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e) 100 FT

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