

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 9830
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Issue: 3
Issue Date: 4/26/2006
Effective Date: 6/15/2006

A. Construction

Diameters

- | | | | |
|----|---------------|-------------------------------------|-------|
| 1) | Component 1 | 1 X 1 COAX | |
| | a) Conductor | 22 (SOLID) AWG BCW | |
| | b) Insulation | 0.0605" Wall, Nom. Polyethylene(PE) | 0.146 |
| | (1) Color(s) | | |

Cond	Color	Cond	Color	Cond	Color
1	NATURAL				

- | | | | |
|----|-------------|---|----------------|
| 2) | Shield | BC BRAID Shield,80% Coverage, Min. | |
| 3) | Jacket | 0.037" Wall, Nom., Type I PVC | 0.242+/- 0.006 |
| | a) Color(s) | BLACK | |
| | b) Print | ALPHA WIRE-* P/N 9830
RG 59/U RU AWM STYLE 1354 ROHS
* = Factory Code | |

B. Industry Approvals

- | | | | |
|----|--------------------------------|---------------------|------------|
| 1) | UL | AWM/STYLE1354 | 60°C / 30V |
| 2) | Military | JAN-C-17A / RG-59/U | |
| 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 60°C |
| 2) | Bend Radius | 10X Cable Diameter |
| 3) | Pull Tension | 9.6 Lbs, Maximum |

D. Electrical Properties

(For Engineering purposes only)

- | | | |
|----|---------------------------|---|
| 1) | Voltage Rating | 1700 V _{RMS} |
| 2) | Characteristic Impedance | 75 Ω +/- 3 |
| 3) | Ground Capacitance | 21.5 pf/ft @1 kHz, Nominal |
| 4) | Velocity of Propagation | 66 % |
| 5) | Conductor DCR | 41 Ω/1000ft @20°C, Nominal |
| 6) | OA Shield DCR | 5 Ω/1000ft @20°C, Nominal |
| 7) | Voltage Withstanding | 7 kV, Minimum |
| 8) | Corona Extinction | 2.3 kV, Minimum |
| 9) | Attenuation, Max dB/100ft | 2.4 @ 100 MHz
4.9 @ 200 MHz
7.1 @ 400 MHz |

E. Other

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

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