

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 9223
Page 1 of 2 Pages

Issue: 6
Issue Date: 7/25/2006
Effective Date: 8/25/2006

A. Construction

Diameters

- | | | | |
|----|---------------|-------------------------------------|-------|
| 1) | Component 1 | 1 X 1 COAX | |
| | a) Conductor | 19 (1/.035) AWG SPC | |
| | b) Insulation | 0.0405" Wall, Nom. Polyethylene(PE) | 0.116 |
| | (1) Color(s) | | |

Cond	Color	Cond	Color	Cond	Color
1	NATURAL				

Individually Applied:

- | | | | |
|----|-------------|--|----------------|
| c) | Shield | SPC BRAID Shield,95% Coverage, Min. | |
| 2) | Shield | SPC BRAID Shield,95% Coverage, Min. | |
| 3) | Jacket | 0.026" Wall, Nom.,Type IIA PVC | 0.212+/- 0.004 |
| | a) Color(s) | BLACK | |
| | b) Print | ALPHA WIRE-* P/N 9223
RG 223/U ROHS
* = Factory Code | |

B. Industry Approvals

- 1) Military MIL-C-17D/84B RG 223/U
- 2) 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.
- 3) 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 18.9 Lbs, Maximum

D. Electrical Properties

(For Engineering purposes only)

- 1) Voltage Rating 1400 V_{RMS}
- 2) Characteristic Impedance 50 Ω +/- 2
- 3) Ground Capacitance 30.8 pf/ft @1 kHz, Nominal
- 4) Velocity of Propagation 66 %
- 5) Conductor DCR 8.47 Ω/1000ft @20°C, Nominal
- 6) OA Shield DCR 2.3 Ω/1000ft @20°C, Nominal
- 7) Voltage Withstanding 5000 kV, Minimum
- 8) Corona Extinction 1900 kV, Minimum
- 9) SRL 22 db, Minimum
- 10) Attenuation, Max dB/100ft
2.8 @ 50 MHz
4.1 @ 100 MHz
6 @ 200 MHz
9 @ 500 MHz
13.6 @ 900 MHz
14.3 @ 1 GHz
55 @ 5 GHz
92 @ 12.4 GHz

E. Other

- 1) Packaging

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Page 2 of 2 Pages

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- a) 1000 FT
- b) 500 FT
- c) 100 FT

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