

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 9008
Page 1 of 1 Pages

Issue: 4
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A. Construction

Diameters

- | | | | |
|----|---------------|------------------------------------|-------|
| 1) | Component 1 | 1 X 1 COAX | |
| | a) Conductor | 13 (7/21) AWG BC | |
| | b) Insulation | 0.099" Wall, Nom. Polyethylene(PE) | 0.285 |
| | (1) Color(s) | | |

Cond	Color	Cond	Color	Cond	Color
1	CLEAR				

- | | | | |
|----|-------------|--|----------------|
| 2) | Shield | BC BRAID Shield,94% Coverage, Min. | |
| 3) | Jacket | 0.046" Wall, Nom., Type I PVC | 0.405+/- 0.007 |
| | a) Color(s) | BLACK | |
| | b) Print | ALPHA WIRE-* P/N 9008
RG 8/U ROHS
* = Factory Code | |

B. Industry Approvals

- | | | | |
|----|--------------------------------|--|--------------|
| 1) | Military | JAN-C-17A / RG-8/U | 60°C / 3700V |
| 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 60°C |
| 2) | Bend Radius | 10X Cable Diameter |
| 3) | Pull Tension | 59 Lbs, Maximum |

D. Electrical Properties

(For Engineering purposes only)

- | | | |
|----|---------------------------|--|
| 1) | Voltage Rating | 3700 V _{RMS} |
| 2) | Characteristic Impedance | 52 Ω +/- 2 |
| 3) | Ground Capacitance | 29.5 pf/ft @1 kHz, Nominal |
| 4) | Velocity of Propagation | 66 % |
| 5) | Conductor DCR | 1.9 Ω/1000ft @20°C, Nominal |
| 6) | OA Shield DCR | 1.29 Ω/1000ft @20°C, Nominal |
| 7) | Voltage Withstanding | 10 kV, Minimum |
| 8) | Corona Extinction | 5 kV, Minimum |
| 9) | Attenuation, Max dB/100ft | 2.3 @ 100 MHz
6 @ 400 MHz
20 @ 3 GHz |

E. Other

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

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